

Lumination™ LED Luminaires

LDS Series



Project name _____

Date _____

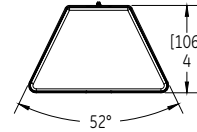
Type _____

Product Description:

The LDS series features mechanical designs which allow quick, easy and trouble-free installation of continuous rows with minimum labor for both suspended as well as surface mount applications. Multiple beam distributions and a wide range of lumen levels allow for easily optimized lighting designs for your application and make retrofitting simple. The simplicity of this design makes it seamless and yet impactful in your ceiling. Further, TriGain™ technology gives you enriched color performance with no sacrifice to efficiency. With CRI and R9 above 90 and efficacy at a remarkable 117 lumens per watt, there is no need to choose between premium light and low operating costs. The LDS series is one of the most advanced technological luminaire with the ability to connect to Daintree, and motion sensors.

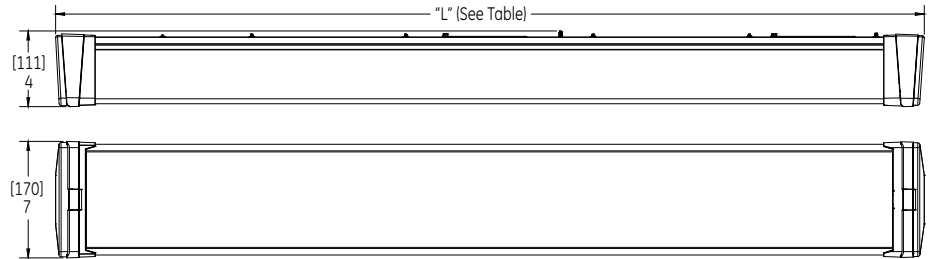
Product Dimensions:


CONFIGURATION	4 FT	8 FT
Length "L" (Inches)	50	98
Length "L" (MM)	1270	2489



Performance Summary:

Distribution Patterns: Direct
Delivered Lumen Output: 3,400-17,000lm
System Input Power: 32-150W
Efficacy: 104-117 LPW
Input Voltage: 120-277V & 347V
Standard Dimming Control: 0-10V
Dimming Compatibility: Refer to Dimmer List
CCT: 3000K, 3500K, 4000K
Typical CRI: 83, 90+ TriGain
Color Consistency: 4 Step MacAdam Ellipse
Input Frequency: (Hz): 50/60Hz
Power Factor: >0.9*
Dimensions: 50 x 7 (4 ft.), or 98 x 4 inches (8 ft.)
Mounting: Suspension or Surface Mount
Weight: <20 lbs.
IC rating: Non-IC Rated
Warranty: 5 Years standard
Rated Life: >L85 @ 60000 hrs.
Storage temperature: -40°C to 60°C
Operating temperature: 0° up to 35° C



Certified by: 

TriGain™ technology from GE

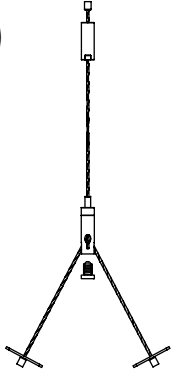
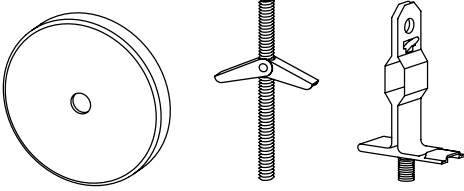
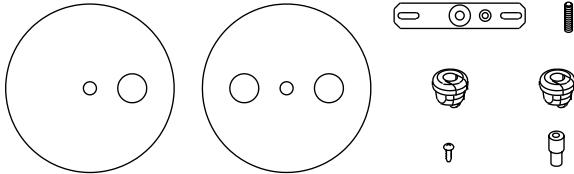
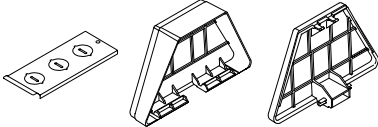
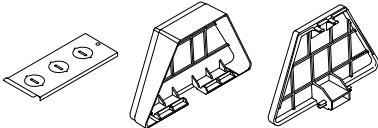
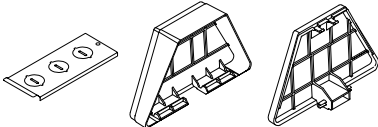
a product of **ecomagination™**

Ordering Information:

MACRO CODE	FIXTURE TYPE	GENERATION	VOLTAGE	LUMEN	DISTRIBUTION	CRI	CCT	CONTROLS	MOUNTING	FINISH	OPTION																																												
LDS = Direct Suspended	I4 = 4 Ft Independent C4 = 4 Ft Continuous* I8 = 8 Ft Independent C8 = 8 Ft Continuous* * Starter kit required (see accessory page below) Note: I4 not available with distribution: "W1", "N1" and "L1"	A = 1st Generation B = 2nd Generation* * Lumens 65, 85, A3, A7 only available in GENERATION 'B'. Lumens 80 and A0 with CRI "T" and CCT "40" only available in GENERATION 'B':	O = 120V-277V D = 347V	4 FT 34 = 3400 Lumen 40 = 4000 Lumen 50 = 5000 Lumen 65 = 6500 Lumen* 85 = 8500 Lumen 8 FT 68 = 6800 Lumen 80 = 8000 Lumen A0 = 10000 Lumen A3 = 13,000 Lumen* A7 = 17,000 Lumen	W0 = Wide W1 = Wide + Uplight N0 = Narrow N1 = Narrow + Uplight WW = Wall Wash L0 = Louvers L1 = Louvers + Uplight	T* = 90 with TriGain 8 = 83 CRI *Note: "T" available only in 34, 40, 50, 68, 80, and A0 lumen options	30 = 3000 CCT* 35 = 3500 CCT 40 = 4000 CCT *30 not available for 90 CRI.	VQ = 0-10V Dimming S1 = On/Off occ. RA = Organic Response EA = Enlighted TQ = Zigbee Enabled TS = Zigbee Enabled with Daintree WFA	PC = Mounting Bracket (Cable Suspended) and Power Cord CS = Mounting Bracket (Cable Suspended) SM = Surface Mount* See accessories page below for further accessory/mounting options which need to be ordered separately. * Note surface mount not available in uplight. *Not available in mounting option SM.	WHITE = White BLCK = Black ST01 = Stainless Steel* Steel*	A = Branch Circuit EL = Emergency Battery																																												
				*Not available with DISTRIBUTION=W1,N1,WW,L0,L1, CRI=T, Voltage=D, Option=EL																																																			
				* Note: Uplight Distribution = 20%																																																			
				<table border="1"> <thead> <tr> <th>LENGTH</th> <th>LUMEN CODE</th> <th>LUMEN</th> <th>POWER</th> </tr> </thead> <tbody> <tr><td>4 ft</td><td>34</td><td>3400</td><td>31</td></tr> <tr><td>4 ft</td><td>40</td><td>4000</td><td>38</td></tr> <tr><td>4 ft</td><td>50</td><td>5000</td><td>44</td></tr> <tr><td>4 ft</td><td>65</td><td>6500</td><td>58</td></tr> <tr><td>4 ft</td><td>85</td><td>8500</td><td>74</td></tr> <tr><td>8 ft</td><td>68</td><td>6800</td><td>62</td></tr> <tr><td>8 ft</td><td>80</td><td>8000</td><td>73</td></tr> <tr><td>8 ft</td><td>A0</td><td>10000</td><td>87</td></tr> <tr><td>8 ft</td><td>A3</td><td>13,000</td><td>115</td></tr> <tr><td>8 ft</td><td>A7</td><td>17,000</td><td>146</td></tr> </tbody> </table>								LENGTH	LUMEN CODE	LUMEN	POWER	4 ft	34	3400	31	4 ft	40	4000	38	4 ft	50	5000	44	4 ft	65	6500	58	4 ft	85	8500	74	8 ft	68	6800	62	8 ft	80	8000	73	8 ft	A0	10000	87	8 ft	A3	13,000	115	8 ft	A7	17,000	146
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8 ft	A7	17,000	146																																																				
				<ul style="list-style-type: none"> • Table Lumens at CCT = 3500K • Lumen Multiplier = 0.97 for CCT = 3000K (N/A for 90CRI) • Lumen Multiplier = 1.04 for CCT = 4000K • 5 Watt increment for 347V & EL option 																																																			

current
powered by GE

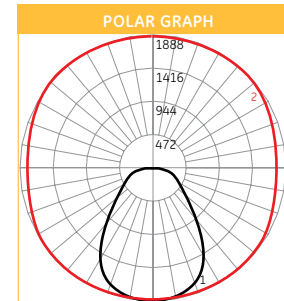


Accessories	Product code
<p>Lower Mounting Kit (2 per kit)</p> 	<p>93026985</p>
<p>Upper Mounting Kit (2 per kit)</p> 	<p>93026986</p>
<p>Canopy Kit (1 per kit)</p> 	<p>93026987</p>
<p>DS Series Starter Kit - White (5 sets of endcaps & knockout plates)</p> 	<p>211994</p>
<p>DS Series Starter Kit - Black (5 sets of endcaps & knockout plates)</p> 	<p>211995</p>
<p>DS Series Starter Kit - Stainless Steel/Grey (5 sets of endcaps & knockout plates)</p> 	<p>93051298</p>

Photometric Data: Lumination™ LDS Series

Distribution Narrow

COEFFICIENTS OF UTILIZATION																			
RC	80%				70%				50%				30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72	
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62	
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54	
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47	
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42	
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38	
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34	
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31	
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29	



Effective Floor Cavity Reflectance 0.20

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20°	537.14	N.A.	13.40
0-30°	1131.35	N.A.	28.30
0-40°	1837.88	N.A.	45.90
0-60°	3199.99	N.A.	80.00
0-80°	3936.85	N.A.	98.40
0-90°	3992.86	N.A.	99.80

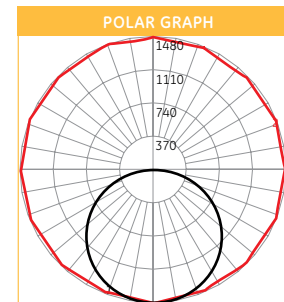
LUMINANCE DATA (CD/SQ.M)			
Angle in Degrees	0°	45°	90°
45°	5219	3974	3705
55°	4252	2934	2639
65°	4147	2504	2272
75°	4174	2061	1861
85°	2216	831	915

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	175.00
10-20	501.45
20-30	733.69
30-40	747.87
40-50	596.59
50-60	469.07

Total Luminaire Efficiency = N.A.%

Distribution Wide

COEFFICIENTS OF UTILIZATION																			
RC	80%				70%				50%				30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70	
3	91	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59	
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51	
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34	
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	



Effective Floor Cavity Reflectance 0.20

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20°	537.16	N.A.	13.40
0-30°	1131.39	N.A.	28.30
0-40°	1837.95	N.A.	45.90
0-60°	3200.11	N.A.	80.00
0-80°	3937.00	N.A.	98.40
0-90°	3993.02	N.A.	99.80

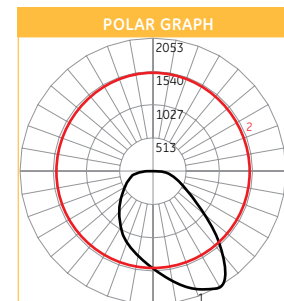
LUMINANCE DATA (CD/SQ.M)			
Angle in Degrees	0°	45°	90°
45°	7805	7735	7595
55°	7388	7294	7083
65°	6896	6646	6416
75°	5871	5459	5078
85°	3634	2651	2221

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	139.63
10-20	397.53
20-30	594.23
30-40	706.56
40-50	721.43
50-60	640.73

Total Luminaire Efficiency = N.A.%

Wall Wash

COEFFICIENTS OF UTILIZATION																			
RC	80%				70%				50%				30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	119	119	119	119	116	116	116	116	108	108	108	103	103	103	97	97	97	95	
1	109	104	100	96	106	102	98	95	93	89	86	88	85	83	84	81	79	77	
2	100	92	85	80	97	90	84	79	81	75	71	77	72	68	73	69	66	64	
3	91	81	74	67	89	80	73	67	71	65	59	68	62	58	65	60	56	53	
4	84	73	64	58	82	71	64	58	63	56	51	60	54	49	58	52	48	46	
5	78	66	57	51	76	65	56	50	57	49	44	54	48	43	52	46	42	40	
6	72	60	51	45	70	59	50	45	51	44	38	49	43	38	47	41	37	35	
7	67	54	46	40	66	54	46	40	47	39	34	45	38	33	43	37	33	31	
8	63	50	42	36	61	49	41	36	43	36	30	41	35	30	40	34	29	27	
9	59	46	38	33	58	45	38	33	40	32	27	38	32	27	37	31	27	25	
10	55	43	35	30	54	42	35	30	37	30	25	35	29	25	34	28	24	22	



Effective Floor Cavity Reflectance 0.20

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20°	595.84	N.A.	15.5
0-30°	1279.22	N.A.	33.3
0-40°	2022.99	N.A.	52.7
0-60°	3101.73	N.A.	80.8
0-80°	3746.99	N.A.	97.6
0-90°	3837.66	N.A.	100

LUMINANCE DATA (CD/SQ.M)			
Angle in Degrees	0°	45°	90°
45°	8129	7695	5680
55°	6140	5812	4725
65°	5560	5356	4758
75°	5588	5588	5381
85°	3702	4504	6046

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	151.85
10-20	443.98
20-30	683.39
30-40	743.76
40-50	608.43
50-60	470.32

Total Luminaire Efficiency = N.A.%

Photometric Data: Lumination™ LDS Series

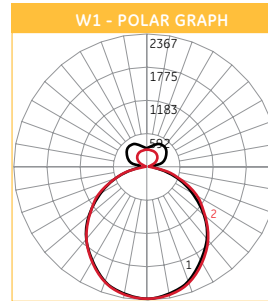
W1 - Wide + Uplight

W1 - COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD																		
RC	80%				70%				50%			30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	75	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	61	58
3	88	78	70	64	84	75	68	63	69	64	59	64	60	56	59	56	53	50
4	81	70	62	55	77	67	60	54	62	56	51	58	53	49	54	50	46	43
5	75	63	55	48	71	61	53	47	56	50	45	53	47	43	49	44	41	38
6	69	57	49	43	66	55	47	42	51	45	40	48	43	38	45	40	37	34
7	65	52	44	38	62	50	43	37	47	41	36	44	39	34	41	37	33	31
8	60	48	40	34	58	46	39	34	43	37	32	41	35	31	38	33	30	28
9	56	44	36	31	54	43	36	31	40	34	29	38	32	28	36	31	27	25
10	53	41	33	28	51	40	33	28	37	31	27	35	30	26	33	28	25	23

Effective Floor Cavity Reflectance 0.20

W1 - ZONAL LUMEN SUMMARY A			
Zone	Lumens	% of Lamp	% of Fixture
0-20°	859.58	N.A.	10.70
0-30°	1810.53	N.A.	22.60
0-40°	2941.22	N.A.	36.80
0-60°	5122.37	N.A.	64.00
0-80°	6335.42	N.A.	79.20
0-90°	6478.86	N.A.	81.00
10-90°	6255.41	N.A.	78.20
20-40°	2081.65	N.A.	26.00
20-50°	3236.26	N.A.	40.40
40-70°	2953.98	N.A.	36.90
60-80°	1213.05	N.A.	15.20
70-80°	440.22	N.A.	5.50
80-90°	143.43	N.A.	1.80
90-110°	247.46	N.A.	3.10
90-120°	467.63	N.A.	5.80
90-130°	732.03	N.A.	9.10
90-150°	1228.29	N.A.	15.30
90-180°	1523.53	N.A.	19.00
110-180°	1276.06	N.A.	15.90
0-180°	8002.38	N.A.	100.00

W1 - ZONAL LUMEN SUMMARY B	
Zone	Lumens
0-10	223.44
10-20	636.13
20-30	950.96
30-40	1130.69
40-50	1154.62
50-60	1026.53
60-70	772.84
70-80	440.22
80-90	143.43
90-100	93.83
100-110	153.63
110-120	220.17
120-130	264.40
130-140	266.42
140-150	229.84
150-160	167.13
160-170	96.77
170-180	31.35



Total Luminaire Efficiency = N.A.%

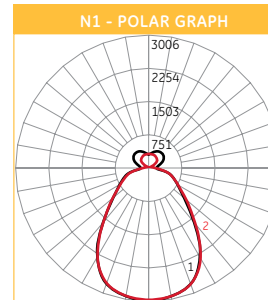
N1 - Wide + Uplight

N1 - COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD																		
RC	80%				70%				50%			30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	75	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	61	58
3	88	78	70	64	84	75	68	63	69	64	59	64	60	56	59	56	53	50
4	81	70	62	55	77	67	60	54	62	56	51	58	53	49	54	50	46	43
5	75	63	55	48	71	61	53	47	56	50	45	53	47	43	49	44	41	38
6	69	57	49	43	66	55	47	42	51	45	40	48	43	38	45	40	37	34
7	65	52	44	38	62	50	43	37	47	41	36	44	39	34	41	37	33	31
8	60	48	40	34	58	46	39	34	43	37	32	41	35	31	38	33	30	28
9	56	44	36	31	54	43	36	31	40	34	29	38	32	28	36	31	27	25
10	53	41	33	28	51	40	33	28	37	31	27	35	30	26	33	28	25	23

Effective Floor Cavity Reflectance 0.20

N1 - ZONAL LUMEN SUMMARY A			
Zone	Lumens	% of Lamp	% of Fixture
0-20°	1095.69	N.A.	13.70
0-30°	2279.9	N.A.	28.50
0-40°	3500.01	N.A.	43.70
0-60°	5212.45	N.A.	65.10
0-80°	6282.94	N.A.	78.50
0-90°	6479.89	N.A.	81.00
10-90°	6195.72	N.A.	77.40
20-40°	2404.32	N.A.	30.00
20-50°	3374.52	N.A.	42.20
40-70°	2321.87	N.A.	29.00
60-80°	1070.49	N.A.	13.40
70-80°	461.06	N.A.	5.80
80-90°	196.95	N.A.	2.50
90-110°	247.50	N.A.	3.10
90-120°	467.46	N.A.	5.80
90-130°	731.67	N.A.	9.10
90-150°	1227.88	N.A.	15.30
90-180°	1523.51	N.A.	19.00
110-180°	1276.02	N.A.	15.90
0-180°	8003.4	N.A.	100.00

N1 - ZONAL LUMEN SUMMARY B	
Zone	Lumens
0-10	284.16
10-20	811.53
20-30	1184.21
30-40	1220.11
40-50	970.21
50-60	742.23
60-70	609.43
70-80	461.06
80-90	196.95
90-100	93.97
100-110	153.53
110-120	219.96
120-130	264.22
130-140	266.31
140-150	229.89
150-160	167.29
160-170	96.93
170-180	31.41



Total Luminaire Efficiency = N.A.%

Photometric Data: Lumination™ LDS Series

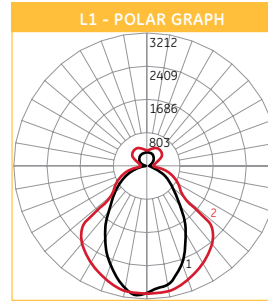
L1 - Wide + Uplight

L1 - COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD																				
RC	80%				70%				50%				30%				10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81		
1	105	101	97	94	101	97	93	90	89	86	84	82	80	78	76	74	73	69		
2	97	89	83	78	92	86	80	75	79	75	71	73	70	67	68	65	62	59		
3	89	79	72	66	85	76	70	64	71	65	61	66	61	57	61	57	54	51		
4	82	71	63	57	78	68	61	55	64	58	53	59	54	50	55	51	47	45		
5	76	64	56	50	72	62	54	49	57	51	46	54	48	44	50	46	42	40		
6	70	58	50	44	67	56	48	43	52	46	41	49	43	39	46	41	38	35		
7	65	53	45	39	62	51	44	38	48	41	37	45	39	35	42	37	34	32		
8	61	48	40	35	58	47	40	34	44	38	33	41	36	32	39	34	31	29		
9	57	45	37	32	55	43	36	31	41	34	30	38	33	29	36	31	28	26		
10	53	41	34	29	51	40	33	28	38	32	27	36	30	27	34	29	26	24		

Effective Floor Cavity Reflectance 0.20

L1 - ZONAL LUMEN SUMMARY A			
Zone	Lumens	% of Lamp	% of Fixture
0-20°	1109.35	N.A.	13.9
0-30°	2269.3	N.A.	28.4
0-40°	3540.6	N.A.	44.2
0-60°	5457.15	N.A.	68.2
0-80°	6348.51	N.A.	79.3
0-90°	6481.67	N.A.	81
10-90°	6187.75	N.A.	77.3
20-40°	2431.25	N.A.	30.4
20-50°	3580.92	N.A.	44.7
40-70°	2474.58	N.A.	30.9
60-80°	891.35	N.A.	11.1
70-80°	333.32	N.A.	4.2
80-90°	133.17	N.A.	1.7
90-110°	246.08	N.A.	3.1
90-120°	465.55	N.A.	5.8
90-130°	729.49	N.A.	9.1
90-150°	1225.59	N.A.	15.3
90-180°	1521.44	N.A.	19
110-180°	1275.36	N.A.	15.9
0-180°	8003.11	N.A.	100

L1 - ZONAL LUMEN SUMMARY B	
Zone	Lumens
0-10	293.92
10-20	815.43
20-30	1159.95
30-40	1271.31
40-50	1149.67
50-60	766.88
60-70	558.03
70-80	333.32
80-90	133.17
90-100	93.17
100-110	152.91
110-120	219.47
120-130	263.94
130-140	266.20
140-150	229.91
150-160	167.37
160-170	97.02
170-180	31.46



Total Luminaire Efficiency = N.A.%

Product Specifications:

Construction:

- 22 gauge galvanized steel housing
- IP Rating: IP20

Installation:

- When ordering Lumination DS Series LED Luminaires, 2 mounting brackets are included with each fixture.
- Additional mounting brackets can be ordered if needed, depending on mounting and spacing of application.
- Suitable for damp locations.

Electrical System:

- Standard 0-10V dimming, high efficiency drivers
- Class II, replaceable LED driver
- THD: <20%
- PF > 0.9 except for the following conditions:
 - 4ft SKU with 347V
 - 4ft SKU with EL option

For more information and access to all of our resources, including our design tool visit: www.gelighting.com



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