

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563833

Luminaire Tested: **SQ4-PP3-150U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563833  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-150U-125D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

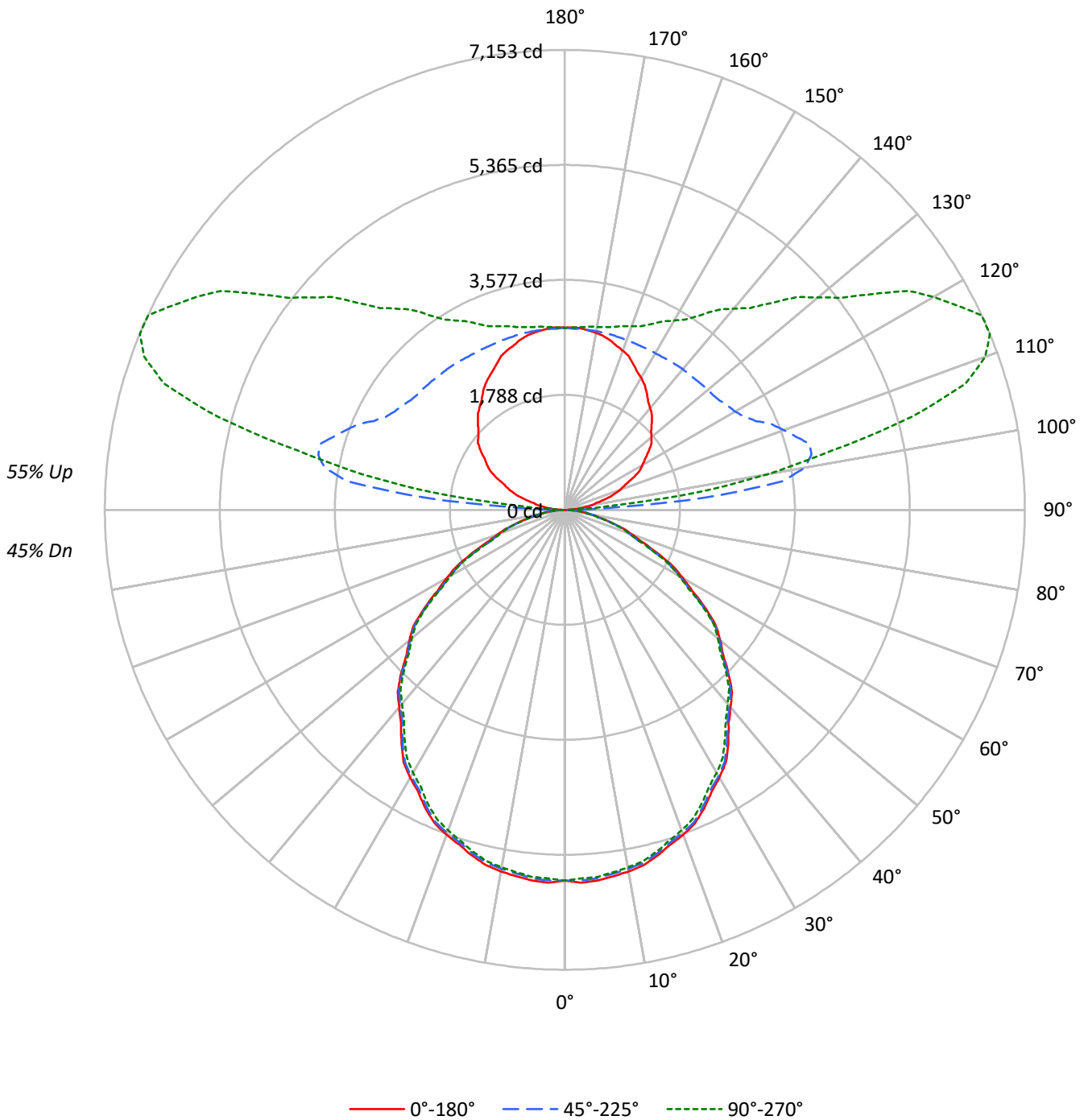
Lumens per Lamp: N/A  
Luminaire Lumens: 33021.6 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 256.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P563833  
CATALOG NUMBER: SQ4-PP3-150U-125D-840-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P563833

CATALOG NUMBER: SQ4-PP3-150U-125D-840-1D-UNV-STD-W-12

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
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
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17738	17738	17738
5°	17868	17759	17696
10°	17838	17712	17633
15°	17720	17623	17527
20°	17602	17503	17371
25°	17393	17273	17101
30°	17071	16981	16766
35°	16625	16511	16302
40°	16093	15992	15809
45°	15653	15543	15389
50°	15092	14995	14850
55°	14311	14121	14013
60°	13027	12654	12592
65°	11477	10998	10962
70°	9909	9500	9500
75°	8529	8409	8289
80°	7520	7610	7431
85°	5886	6422	6422



TEST NUMBER: P563833

CATALOG NUMBER: SQ4-PP3-150U-125D-840-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.4	1.7
10°-20°	1557.3	4.7
20°-30°	2332.6	7.1
30°-40°	2736.0	8.3
40°-50°	2744.5	8.3
50°-60°	2341.3	7.1
60°-70°	1526.9	4.6
70°-80°	766.1	2.3
80°-90°	217.9	0.7
90°-100°	1315.8	4.0
100°-110°	3557.5	10.8
110°-120°	3740.2	11.3
120°-130°	3038.1	9.2
130°-140°	2383.1	7.2
140°-150°	1829.1	5.5
150°-160°	1315.4	4.0
160°-170°	803.6	2.4
170°-180°	270.9	0.8
0°-30°	4435.2	13.4
0°-40°	7171.2	21.7
0°-60°	12257.0	37.1
0°-90°	14767.9	44.7
90°-120°	8613.5	26.1
90°-150°	15863.8	48.0
90°-180°	18254.0	55.3
0°-180°	33021.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5768	5768	5768	5768	5768	
5°	5788	5734	5752	5732	5732	550
15°	5566	5511	5535	5515	5505	1570
25°	5126	5066	5090	5045	5040	2357
35°	4428	4384	4398	4347	4342	2766
45°	3599	3574	3574	3538	3538	2771
55°	2669	2659	2634	2618	2613	2372
65°	1577	1548	1511	1501	1506	1574
75°	718	718	708	702	698	779
85°	167	182	182	182	182	196
90°	6	18	40	43	40	20
95°	204	717	2188	1132	674	214
105°	661	1022	3947	5822	5583	696
115°	1164	1423	3273	6336	7153	1150
125°	1594	1826	2950	4978	5848	1421
135°	1911	2137	2871	4020	4550	1477
145°	2222	2388	2831	3441	3703	1390
155°	2508	2606	2807	3086	3188	1157
165°	2731	2757	2819	2929	2944	769
175°	2834	2831	2822	2858	2852	269
180°	2831	2831	2831	2831	2831	

TEST NUMBER: P563833

CATALOG NUMBER: SQ4-PP3-150U-125D-840-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5767.7	5767.7	5767.7	5767.7	5767.7
2.5°	5804.0	5756.6	5767.7	5759.0	5735.3
5°	5787.9	5733.5	5752.5	5732.3	5732.3
7.5°	5748.4	5689.1	5708.0	5687.8	5686.8
10°	5712.0	5652.7	5671.6	5651.3	5646.3
12.5°	5659.5	5600.2	5623.1	5598.8	5597.8
15°	5565.5	5511.1	5535.1	5514.7	5504.8
17.5°	5459.3	5400.0	5429.0	5400.6	5396.6
20°	5378.4	5319.1	5348.1	5307.7	5307.7
22.5°	5281.4	5222.1	5255.1	5202.5	5202.5
25°	5125.7	5066.4	5090.3	5044.7	5039.7
27.5°	4940.7	4882.3	4907.3	4855.7	4854.7
30°	4807.2	4752.8	4781.9	4726.2	4721.3
32.5°	4661.6	4611.2	4632.3	4576.6	4571.7
35°	4428.1	4383.6	4397.8	4347.1	4342.2
37.5°	4182.4	4137.0	4153.1	4109.6	4107.6
40°	4008.5	3978.9	3983.3	3947.7	3937.8
42.5°	3846.8	3813.2	3817.5	3782.0	3780.1
45°	3599.1	3574.4	3573.8	3538.4	3538.4
47.5°	3336.2	3317.5	3312.0	3282.6	3281.6
50°	3154.3	3139.4	3134.0	3108.7	3103.7
52.5°	2964.2	2957.3	2939.9	2918.7	2917.7
55°	2669.0	2659.1	2633.6	2618.3	2613.4
57.5°	2348.5	2328.7	2300.0	2277.8	2281.8
60°	2118.0	2098.2	2057.3	2047.2	2047.2
62.5°	1895.6	1871.9	1830.9	1816.9	1824.8
65°	1577.1	1547.5	1511.4	1501.4	1506.4
67.5°	1288.0	1261.3	1222.3	1222.2	1218.2
70°	1102.0	1087.1	1056.5	1056.5	1056.5
72.5°	936.2	929.2	906.9	906.8	902.8
75°	717.8	717.8	707.7	702.5	697.6
77.5°	537.8	539.8	534.8	529.6	520.7
80°	424.6	434.5	429.7	424.5	419.6
82.5°	319.5	329.4	328.6	319.4	318.5
85°	166.8	181.6	182.0	182.0	182.0
87.5°	45.7	63.9	72.6	73.3	76.7
90°	6.1	18.0	39.6	42.6	39.6
92.5°	86.6	315.4	622.3	270.1	195.7
95°	204.2	716.7	2188.2	1132.4	673.5
97.5°	327.9	822.0	3410.8	2822.7	2073.0
100°	420.6	864.6	3791.2	3953.8	3196.9
102.5°	505.9	923.7	3925.3	4811.4	4245.3
105°	661.3	1021.9	3946.6	5821.5	5583.1
107.5°	805.2	1134.1	3774.1	6451.7	6530.9
110°	917.3	1215.3	3620.5	6620.9	6957.6



TEST NUMBER: P563833

CATALOG NUMBER: SQ4-PP3-150U-125D-840-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1017.3	1296.2	3479.1	6587.1	7152.6
115°	1164.2	1423.4	3273.1	6336.2	7152.6
117.5°	1308.0	1551.2	3137.2	5952.8	6878.3
120°	1395.8	1634.2	3056.7	5677.7	6622.4
122.5°	1478.7	1712.3	3007.9	5382.9	6334.7
125°	1593.9	1826.3	2950.0	4978.2	5848.3
127.5°	1699.9	1928.2	2915.9	4647.9	5413.1
130°	1758.4	1993.9	2901.3	4443.8	5135.1
132.5°	1819.4	2052.4	2886.7	4259.7	4896.2
135°	1910.8	2137.3	2870.8	4019.6	4550.0
137.5°	2002.9	2216.8	2857.4	3824.8	4256.8
140°	2066.2	2265.9	2852.5	3699.3	4083.7
142.5°	2127.2	2314.9	2842.8	3586.1	3922.8
145°	2221.7	2388.5	2831.2	3440.6	3702.8
147.5°	2307.6	2455.4	2817.8	3308.7	3510.2
150°	2371.0	2502.1	2812.9	3237.1	3398.0
152.5°	2429.5	2543.9	2810.5	3170.6	3302.9
155°	2508.1	2606.5	2806.8	3086.4	3187.8
157.5°	2589.8	2658.4	2807.4	3027.7	3094.5
160°	2636.1	2692.8	2809.9	2990.7	3038.4
162.5°	2672.7	2719.8	2812.3	2961.2	2997.0
165°	2730.6	2757.4	2819.0	2929.0	2943.9
167.5°	2770.2	2788.7	2819.6	2901.4	2908.6
170°	2794.6	2803.6	2822.0	2889.1	2889.1
172.5°	2814.1	2815.9	2822.0	2874.4	2872.0
175°	2834.2	2831.3	2822.0	2858.5	2852.5
177.5°	2840.9	2833.8	2821.4	2845.7	2838.5
180°	2831.2	2831.2	2831.2	2831.2	2831.2

(END OF REPORT)