

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: P563161

Luminaire Tested: **SQ4-PC3-150U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563161
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-125D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

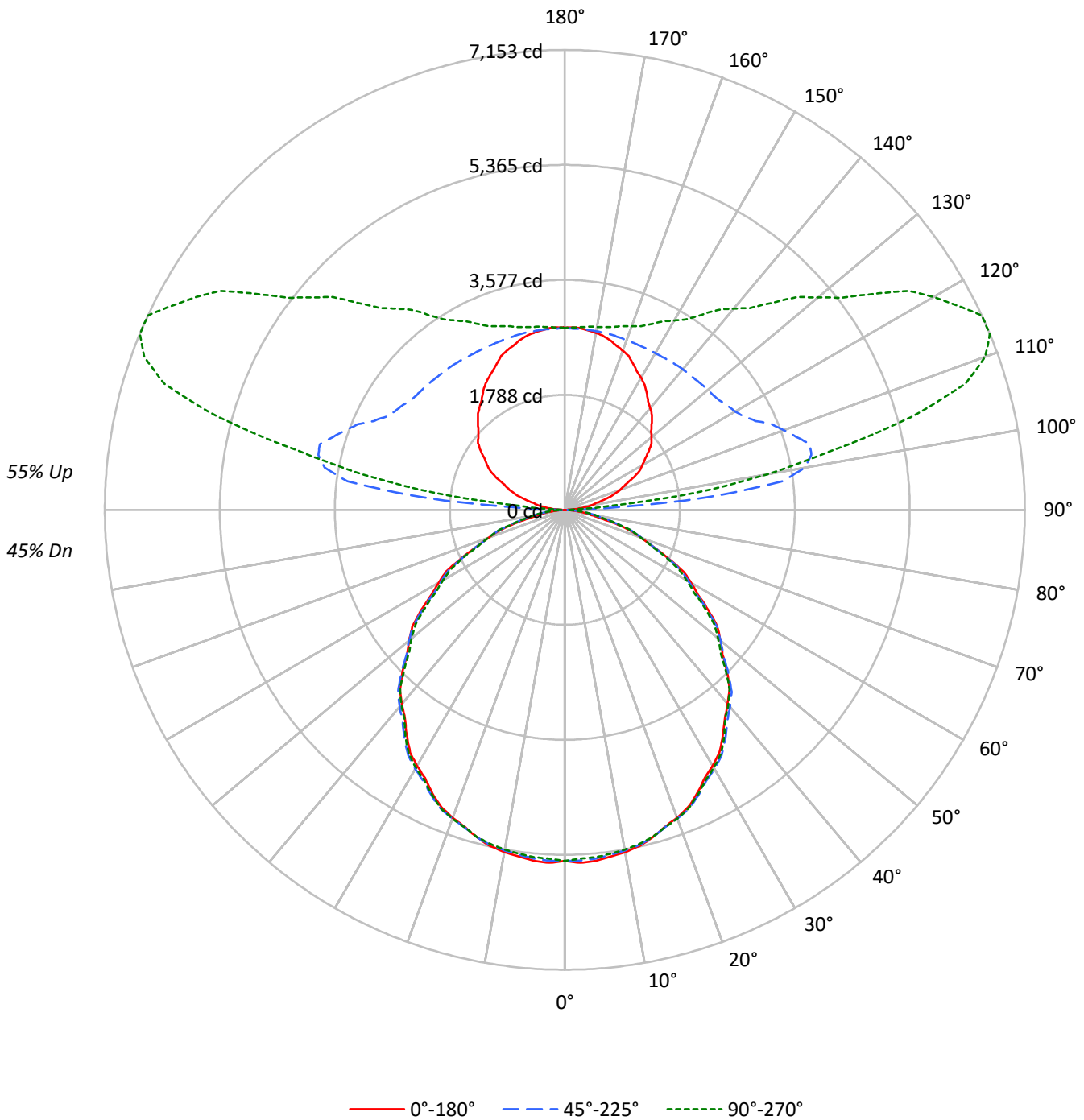
Lumens per Lamp: N/A
Luminaire Lumens: 33162.6 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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



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Luminous Intensity Polar Plot





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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	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16752
15°	16790	16790	16774
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15874
45°	15525	15635	15393
50°	15119	15119	14877
55°	14639	14450	14233
60°	13932	13652	13435
65°	12877	12620	12510
70°	11275	11366	11321
75°	9072	10034	10093
80°	6447	8506	8597
85°	3924	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.8	1.6
10°-20°	1483.0	4.5
20°-30°	2245.9	6.8
30°-40°	2692.5	8.1
40°-50°	2745.4	8.3
50°-60°	2396.6	7.2
60°-70°	1715.7	5.2
70°-80°	883.7	2.7
80°-90°	229.4	0.7
90°-100°	1315.8	4.0
100°-110°	3557.5	10.7
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°	4245.7	12.8
0°-40°	6938.1	20.9
0°-60°	12080.1	36.4
0°-90°	14908.9	45.0
90°-120°	8613.5	26.0
90°-150°	15863.8	47.8
90°-180°	18254.0	55.0
0°-180°	33162.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5461	5461	5461	5461	5461	
5°	5481	5426	5445	5430	5425	520
15°	5274	5229	5274	5273	5268	1487
25°	4869	4834	4904	4889	4889	2241
35°	4282	4273	4348	4318	4318	2678
45°	3570	3560	3595	3549	3539	2748
55°	2730	2696	2695	2654	2654	2434
65°	1770	1730	1734	1719	1719	1750
75°	764	798	844	849	849	825
85°	111	171	202	207	202	151
90°	6	18	40	43	40	18
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5460.6	5460.6	5460.6	5460.6	5460.6
2.5°	5493.0	5445.5	5460.6	5448.0	5428.2
5°	5480.8	5426.4	5445.4	5430.1	5425.2
7.5°	5441.4	5387.0	5412.1	5401.8	5396.9
10°	5405.0	5350.6	5379.7	5369.5	5364.5
12.5°	5356.4	5306.0	5339.2	5329.1	5328.1
15°	5273.5	5229.0	5273.5	5273.4	5268.5
17.5°	5169.4	5128.8	5176.4	5179.4	5176.4
20°	5096.6	5052.1	5111.7	5106.8	5111.7
22.5°	5007.6	4971.0	5034.9	5021.8	5026.8
25°	4869.0	4834.4	4904.4	4889.3	4889.3
27.5°	4705.2	4680.5	4756.8	4740.6	4740.6
30°	4596.0	4571.3	4651.6	4631.4	4631.4
32.5°	4474.7	4457.8	4534.3	4510.0	4510.0
35°	4282.5	4272.6	4348.3	4317.9	4317.9
37.5°	4084.3	4075.4	4144.0	4107.3	4095.4
40°	3938.7	3933.8	3994.3	3953.9	3953.9
42.5°	3793.1	3788.1	3840.6	3792.1	3792.1
45°	3569.6	3559.7	3594.9	3549.2	3539.3
47.5°	3325.9	3316.0	3338.0	3288.4	3283.4
50°	3160.1	3150.2	3160.1	3114.4	3109.5
52.5°	2990.2	2972.4	2974.0	2928.5	2927.5
55°	2730.3	2695.7	2694.9	2654.5	2654.5
57.5°	2455.2	2409.8	2413.8	2379.3	2374.3
60°	2265.1	2215.7	2219.6	2189.2	2184.2
62.5°	2079.1	2021.7	2033.6	1999.2	1998.2
65°	1769.6	1730.1	1734.2	1719.1	1719.1
67.5°	1472.3	1435.8	1462.2	1450.1	1449.1
70°	1253.9	1229.2	1264.0	1263.9	1259.0
72.5°	1051.7	1050.7	1094.1	1094.2	1097.2
75°	763.5	798.1	844.4	849.4	849.4
77.5°	509.7	571.0	621.9	623.9	622.9
80°	364.0	433.3	480.3	490.3	485.4
82.5°	246.7	319.9	359.0	369.0	364.0
85°	111.2	170.6	202.2	207.2	202.2
87.5°	33.6	71.6	88.8	89.2	80.7
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



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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)