

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: P563157

Luminaire Tested: **SQ4-PC3-150U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563157  
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-835-1D-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

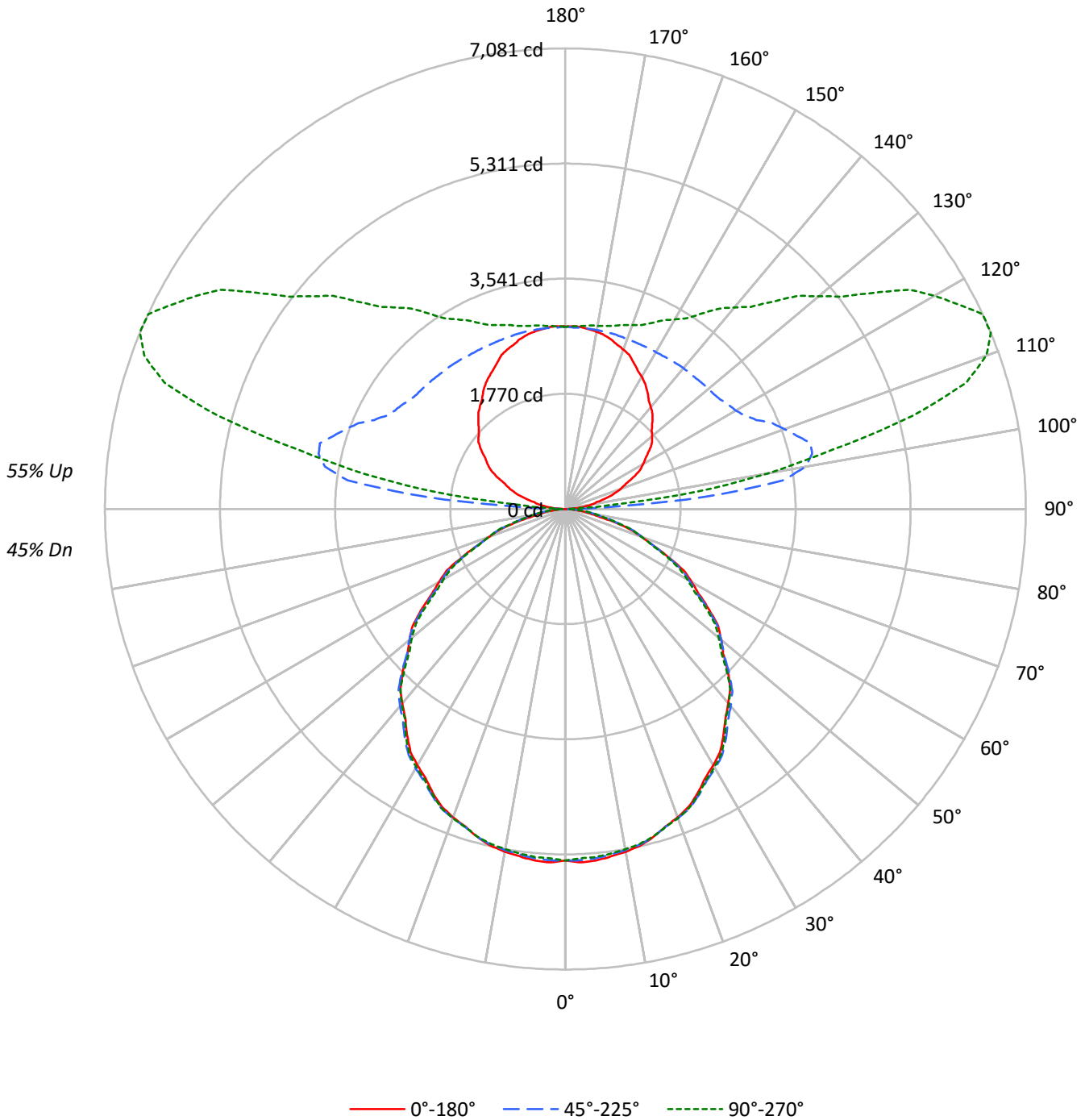
Lumens per Lamp: N/A  
Luminaire Lumens: 32832.3 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

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°	16626	16626	16626
5°	16751	16643	16582
10°	16711	16633	16586
15°	16623	16623	16607
20°	16514	16563	16563
25°	16358	16477	16425
30°	16159	16354	16283
35°	15918	16162	16050
40°	15655	15876	15715
45°	15370	15479	15240
50°	14969	14969	14729
55°	14493	14306	14091
60°	13794	13516	13301
65°	12749	12495	12385
70°	11163	11252	11207
75°	8982	9934	9993
80°	6383	8421	8512
85°	3885	7064	7064



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	511.6	1.6
10°-20°	1468.3	4.5
20°-30°	2223.5	6.8
30°-40°	2665.7	8.1
40°-50°	2718.1	8.3
50°-60°	2372.7	7.2
60°-70°	1698.6	5.2
70°-80°	874.9	2.7
80°-90°	227.1	0.7
90°-100°	1302.7	4.0
100°-110°	3522.1	10.7
110°-120°	3703.0	11.3
120°-130°	3007.8	9.2
130°-140°	2359.4	7.2
140°-150°	1810.8	5.5
150°-160°	1302.3	4.0
160°-170°	795.6	2.4
170°-180°	268.2	0.8
0°-30°	4203.4	12.8
0°-40°	6869.0	20.9
0°-60°	11959.8	36.4
0°-90°	14760.4	45.0
90°-120°	8527.7	26.0
90°-150°	15705.8	47.8
90°-180°	18072.0	55.0
0°-180°	32832.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5406	5406	5406	5406	5406	
5°	5426	5372	5391	5376	5371	515
15°	5221	5177	5221	5221	5216	1472
25°	4820	4786	4856	4840	4840	2218
35°	4240	4230	4305	4275	4275	2652
45°	3534	3524	3559	3514	3504	2720
55°	2703	2669	2668	2628	2628	2410
65°	1752	1713	1717	1702	1702	1733
75°	756	790	836	841	841	817
85°	110	169	200	205	200	150
90°	6	18	39	42	39	18
95°	202	710	2166	1121	667	212
105°	655	1012	3907	5764	5528	690
115°	1153	1409	3240	6273	7081	1138
125°	1578	1808	2921	4929	5790	1407
135°	1892	2116	2842	3980	4505	1462
145°	2200	2365	2803	3406	3666	1376
155°	2483	2580	2779	3056	3156	1145
165°	2703	2730	2791	2900	2915	762
175°	2806	2803	2794	2830	2824	266
180°	2803	2803	2803	2803	2803	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5406.2	5406.2	5406.2	5406.2	5406.2
2.5°	5438.2	5391.2	5406.2	5393.7	5374.2
5°	5426.2	5372.4	5391.2	5376.0	5371.2
7.5°	5387.2	5333.3	5358.1	5348.0	5343.1
10°	5351.1	5297.3	5326.1	5316.0	5311.1
12.5°	5303.1	5253.2	5286.1	5276.0	5275.0
15°	5221.0	5176.9	5221.0	5220.9	5216.0
17.5°	5117.9	5077.7	5124.9	5127.8	5124.9
20°	5045.8	5001.7	5060.8	5055.9	5060.8
22.5°	4957.7	4921.5	4984.7	4971.8	4976.7
25°	4820.5	4786.3	4855.6	4840.5	4840.5
27.5°	4658.3	4633.9	4709.4	4693.4	4693.4
30°	4550.2	4525.7	4605.3	4585.3	4585.3
32.5°	4430.1	4413.4	4489.1	4465.1	4465.1
35°	4239.9	4230.1	4304.9	4274.9	4274.9
37.5°	4043.6	4034.8	4102.7	4066.4	4054.6
40°	3899.5	3894.6	3954.5	3914.5	3914.5
42.5°	3755.3	3750.4	3802.4	3754.3	3754.3
45°	3534.0	3524.3	3559.1	3513.8	3504.0
47.5°	3292.8	3283.0	3304.8	3255.6	3250.7
50°	3128.6	3118.8	3128.6	3083.4	3078.5
52.5°	2960.4	2942.8	2944.4	2899.3	2898.3
55°	2703.1	2668.8	2668.1	2628.0	2628.0
57.5°	2430.8	2385.8	2389.7	2355.6	2350.7
60°	2242.6	2193.6	2197.5	2167.4	2162.5
62.5°	2058.4	2001.6	2013.3	1979.2	1978.3
65°	1752.0	1712.9	1717.0	1701.9	1701.9
67.5°	1457.7	1421.5	1447.7	1435.6	1434.6
70°	1241.4	1216.9	1251.4	1251.3	1246.4
72.5°	1041.2	1040.2	1083.2	1083.3	1086.2
75°	755.9	790.1	836.0	841.0	841.0
77.5°	504.6	565.3	615.7	617.7	616.7
80°	360.4	428.9	475.5	485.4	480.6
82.5°	244.3	316.7	355.4	365.3	360.4
85°	110.1	168.9	200.2	205.1	200.2
87.5°	33.2	70.8	87.9	88.3	79.9
90°	6.0	17.8	39.2	42.2	39.2
92.5°	85.7	312.3	616.1	267.5	193.7
95°	202.2	709.6	2166.4	1121.1	666.8
97.5°	324.7	813.8	3376.9	2794.6	2052.3
100°	416.4	855.9	3753.4	3914.4	3165.0
102.5°	500.9	914.5	3886.2	4763.5	4203.0
105°	654.7	1011.7	3907.3	5763.5	5527.5
107.5°	797.1	1122.8	3736.5	6387.4	6465.9
110°	908.2	1203.2	3584.4	6554.9	6888.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1007.1	1283.3	3444.4	6521.4	7081.4
115°	1152.6	1409.2	3240.5	6273.0	7081.4
117.5°	1295.0	1535.7	3105.9	5893.5	6809.8
120°	1381.9	1617.9	3026.3	5621.2	6556.4
122.5°	1463.9	1695.2	2978.0	5329.3	6271.6
125°	1578.0	1808.1	2920.7	4928.6	5790.0
127.5°	1683.0	1909.0	2886.9	4601.6	5359.2
130°	1740.9	1974.0	2872.4	4399.5	5084.0
132.5°	1801.3	2032.0	2857.9	4217.3	4847.4
135°	1891.8	2116.0	2842.2	3979.6	4504.7
137.5°	1982.9	2194.7	2828.9	3786.7	4214.4
140°	2045.7	2243.3	2824.1	3662.5	4043.1
142.5°	2106.0	2291.9	2814.4	3550.4	3883.7
145°	2199.5	2364.7	2803.0	3406.3	3665.9
147.5°	2284.6	2431.0	2789.7	3275.8	3475.2
150°	2347.4	2477.2	2784.9	3204.9	3364.2
152.5°	2405.3	2518.6	2782.5	3139.1	3270.0
155°	2483.2	2580.5	2778.8	3055.7	3156.0
157.5°	2564.0	2631.9	2779.4	2997.6	3063.7
160°	2609.9	2665.9	2781.9	2960.9	3008.2
162.5°	2646.1	2692.7	2784.3	2931.7	2967.1
165°	2703.4	2730.0	2790.9	2899.9	2914.6
167.5°	2742.6	2760.9	2791.5	2872.5	2879.6
170°	2766.8	2775.6	2793.9	2860.3	2860.3
172.5°	2786.1	2787.9	2793.9	2845.8	2843.4
175°	2806.0	2803.0	2793.9	2830.0	2824.1
177.5°	2812.6	2805.6	2793.3	2817.3	2810.2
180°	2803.0	2803.0	2803.0	2803.0	2803.0

(END OF REPORT)