

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: P563829

Luminaire Tested: **SQ4-PP3-150U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563829
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

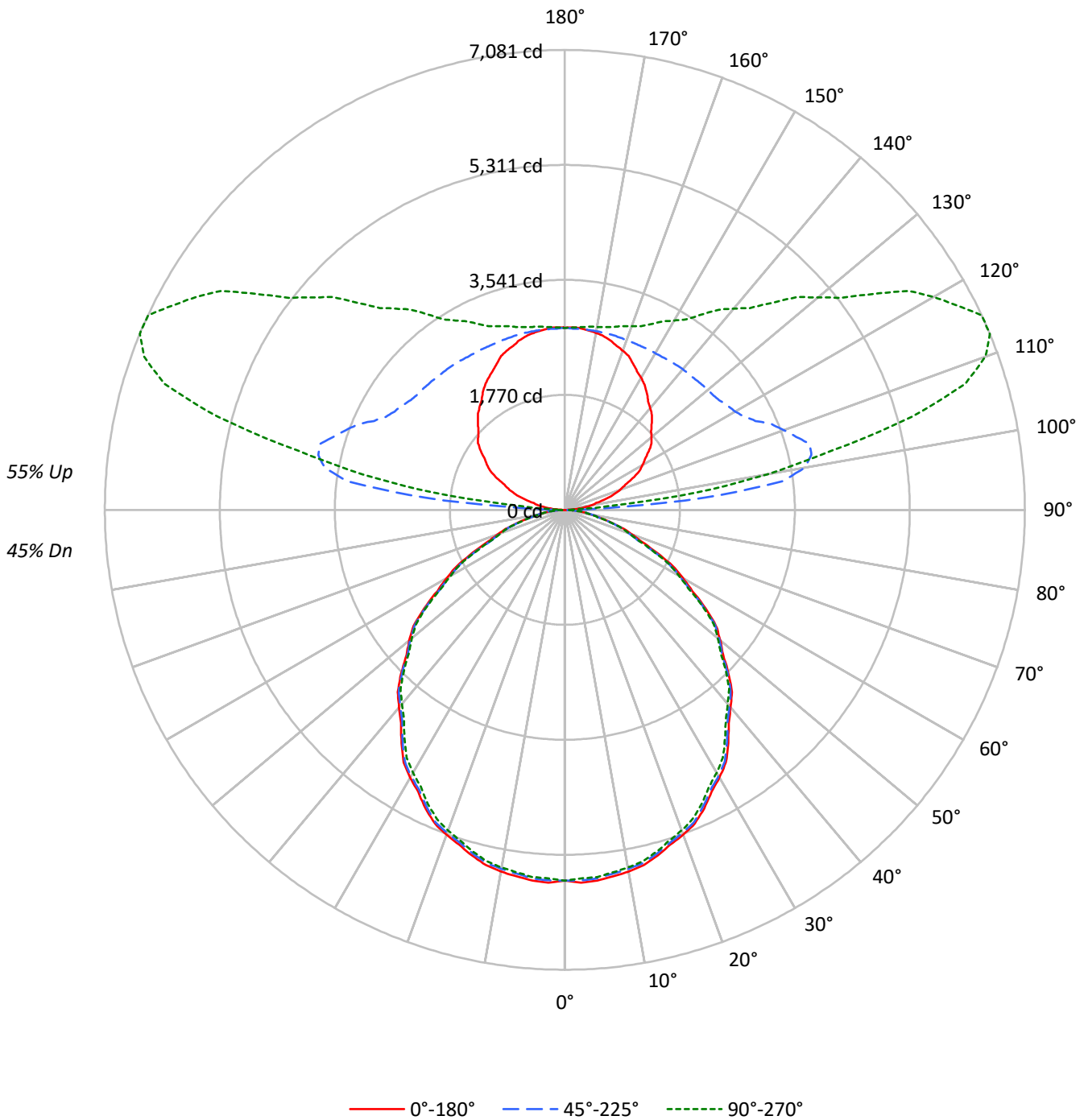
Lumens per Lamp: N/A
Luminaire Lumens: 32692.7 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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



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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	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°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17543	17448	17352
20°	17427	17329	17198
25°	17220	17101	16931
30°	16901	16812	16599
35°	16459	16347	16140
40°	15933	15832	15651
45°	15497	15389	15236
50°	14941	14845	14702
55°	14168	13980	13873
60°	12898	12529	12466
65°	11362	10889	10853
70°	9810	9405	9405
75°	8444	8325	8206
80°	7446	7534	7357
85°	5829	6359	6359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.0	1.7
10°-20°	1541.7	4.7
20°-30°	2309.3	7.1
30°-40°	2708.7	8.3
40°-50°	2717.2	8.3
50°-60°	2318.0	7.1
60°-70°	1511.7	4.6
70°-80°	758.4	2.3
80°-90°	215.8	0.7
90°-100°	1302.7	4.0
100°-110°	3522.1	10.8
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°	4391.0	13.4
0°-40°	7099.7	21.7
0°-60°	12134.9	37.1
0°-90°	14620.8	44.7
90°-120°	8527.7	26.1
90°-150°	15705.8	48.0
90°-180°	18072.0	55.3
0°-180°	32692.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5710	5710	5710	5710	5710	
5°	5730	5676	5695	5675	5675	544
15°	5510	5456	5480	5460	5450	1554
25°	5075	5016	5040	4994	4990	2333
35°	4384	4340	4354	4304	4299	2739
45°	3563	3539	3538	3503	3503	2744
55°	2642	2633	2607	2592	2587	2348
65°	1561	1532	1496	1486	1491	1558
75°	711	711	701	696	691	771
85°	165	180	180	180	180	194
90°	6	18	39	42	39	20
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	

TEST NUMBER: P563829

CATALOG NUMBER: SQ4-PP3-150U-125D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5710.2	5710.2	5710.2	5710.2	5710.2
2.5°	5746.2	5699.2	5710.2	5701.6	5678.2
5°	5730.2	5676.4	5695.2	5675.2	5675.2
7.5°	5691.2	5632.5	5651.1	5631.1	5630.1
10°	5655.1	5596.4	5615.1	5595.0	5590.1
12.5°	5603.1	5544.4	5567.1	5543.0	5542.0
15°	5510.0	5456.2	5480.0	5459.7	5450.0
17.5°	5404.9	5346.2	5374.9	5346.8	5342.9
20°	5324.8	5266.1	5294.8	5254.8	5254.8
22.5°	5228.8	5170.0	5202.7	5150.7	5150.7
25°	5074.6	5015.9	5039.6	4994.4	4989.5
27.5°	4891.4	4833.7	4858.4	4807.3	4806.4
30°	4759.3	4705.5	4734.3	4679.1	4674.2
32.5°	4615.2	4565.3	4586.2	4531.0	4526.1
35°	4384.0	4339.9	4354.0	4303.8	4298.9
37.5°	4140.8	4095.7	4111.7	4068.7	4066.7
40°	3968.6	3939.2	3943.6	3908.3	3898.5
42.5°	3808.5	3775.2	3779.4	3744.4	3742.4
45°	3563.2	3538.8	3538.2	3503.2	3503.2
47.5°	3303.0	3284.4	3279.0	3249.9	3249.0
50°	3122.8	3108.2	3102.8	3077.7	3072.8
52.5°	2934.7	2927.8	2910.6	2889.6	2888.6
55°	2642.4	2632.6	2607.4	2592.2	2587.4
57.5°	2325.1	2305.5	2277.1	2255.1	2259.1
60°	2096.9	2077.3	2036.9	2026.8	2026.8
62.5°	1876.7	1853.2	1812.6	1798.8	1806.6
65°	1561.4	1532.1	1496.4	1486.5	1491.4
67.5°	1275.2	1248.7	1210.1	1210.0	1206.1
70°	1091.0	1076.3	1046.0	1046.0	1046.0
72.5°	926.8	920.0	897.8	897.7	893.8
75°	710.6	710.6	700.6	695.5	690.6
77.5°	532.5	534.4	529.5	524.3	515.5
80°	420.4	430.2	425.4	420.3	415.4
82.5°	316.3	326.1	325.3	316.3	315.3
85°	165.2	179.8	180.2	180.2	180.2
87.5°	45.2	63.3	71.9	72.6	75.9
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



TEST NUMBER: P563829

CATALOG NUMBER: SQ4-PP3-150U-125D-835-1D-UNV-STD-W-12

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)