

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: P565173

Luminaire Tested: **SQ4-PW1-150U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565173
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-125D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

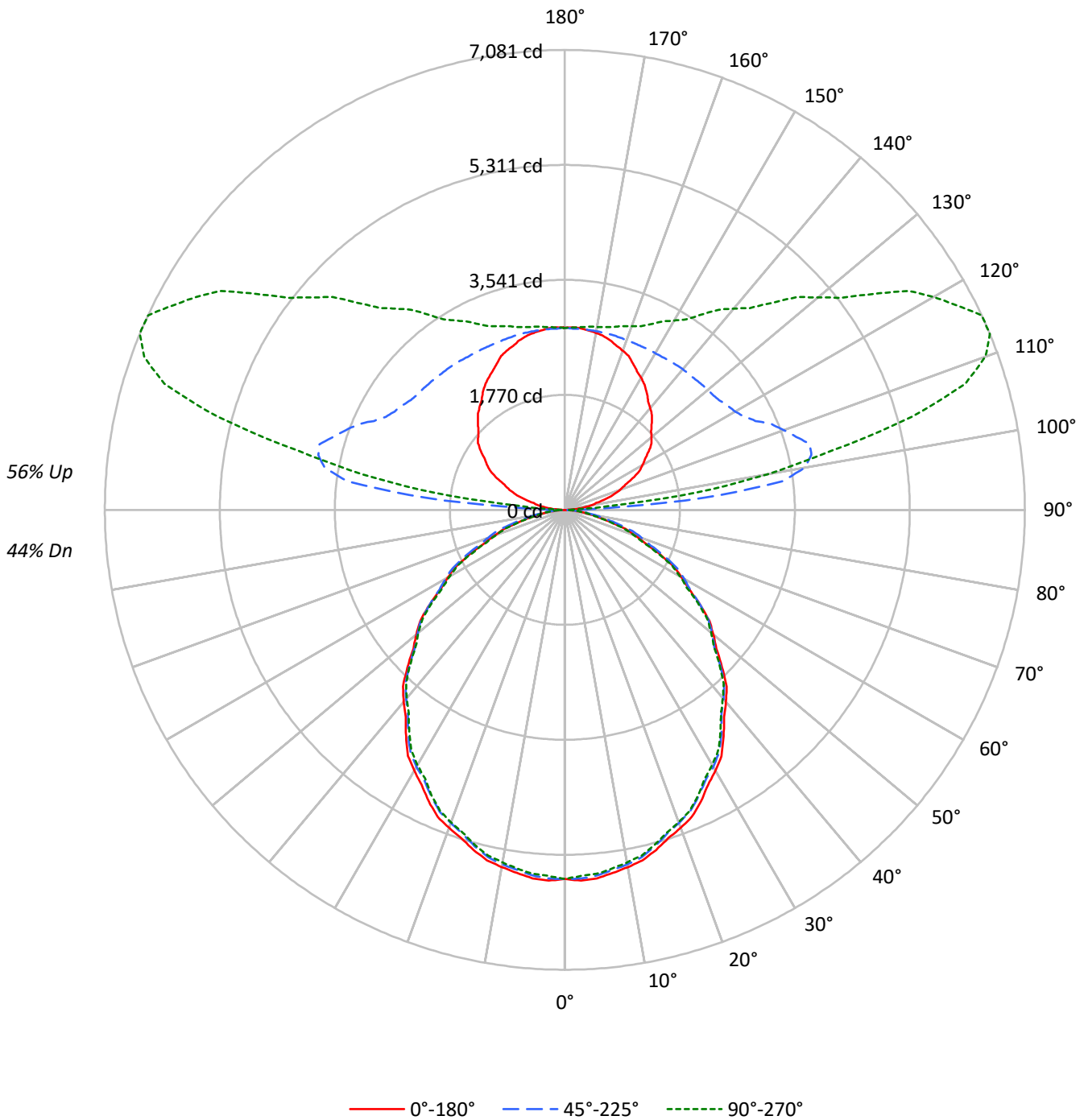
Lumens per Lamp: N/A
Luminaire Lumens: 32533.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17473	17473	17473
5°	17586	17447	17370
10°	17445	17305	17211
15°	17261	17069	17005
20°	17054	16792	16760
25°	16816	16511	16460
30°	16461	16212	16105
35°	15993	15768	15674
40°	15494	15253	15193
45°	14891	14696	14631
50°	14274	14154	14059
55°	13608	13608	13393
60°	12778	13024	12562
65°	11693	12276	11402
70°	10307	11297	10038
75°	8803	10112	8565
80°	6826	8512	6914
85°	4414	6535	5829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.0	1.6
10°-20°	1510.5	4.6
20°-30°	2240.5	6.9
30°-40°	2621.6	8.1
40°-50°	2609.9	8.0
50°-60°	2253.8	6.9
60°-70°	1622.3	5.0
70°-80°	850.7	2.6
80°-90°	216.8	0.7
90°-100°	1302.7	4.0
100°-110°	3522.1	10.8
110°-120°	3703.0	11.4
120°-130°	3007.8	9.2
130°-140°	2359.4	7.3
140°-150°	1810.8	5.6
150°-160°	1302.3	4.0
160°-170°	795.6	2.4
170°-180°	268.2	0.8
0°-30°	4286.0	13.2
0°-40°	6907.6	21.2
0°-60°	11771.3	36.2
0°-90°	14461.1	44.5
90°-120°	8527.7	26.2
90°-150°	15705.8	48.3
90°-180°	18072.0	55.5
0°-180°	32533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5682	5682	5682	5682	5682	
5°	5696	5633	5652	5636	5626	540
15°	5421	5353	5361	5351	5341	1528
25°	4956	4872	4866	4836	4851	2279
35°	4260	4201	4200	4160	4175	2663
45°	3424	3395	3379	3369	3364	2642
55°	2538	2533	2538	2503	2498	2264
65°	1607	1656	1687	1621	1567	1592
75°	741	809	851	794	721	794
85°	125	164	185	175	165	165
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	

TEST NUMBER: P565173

CATALOG NUMBER: SQ4-PW1-150U-125D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5681.5	5681.5	5681.5	5681.5	5681.5
2.5°	5713.5	5666.6	5681.5	5668.9	5641.5
5°	5696.5	5632.9	5651.5	5636.2	5626.4
7.5°	5638.5	5579.7	5593.4	5577.3	5571.4
10°	5586.4	5527.7	5541.4	5521.1	5511.3
12.5°	5526.3	5463.7	5477.3	5457.1	5451.2
15°	5421.2	5352.7	5361.1	5350.9	5341.1
17.5°	5299.1	5229.6	5231.0	5214.9	5213.0
20°	5211.0	5137.6	5130.9	5111.1	5120.9
22.5°	5114.9	5037.5	5030.8	5003.0	5016.8
25°	4955.7	4872.5	4865.6	4835.9	4850.6
27.5°	4771.5	4689.2	4689.4	4647.7	4663.3
30°	4635.3	4557.0	4565.2	4515.6	4535.2
32.5°	4491.1	4420.7	4425.1	4375.5	4395.0
35°	4259.9	4201.1	4199.8	4160.1	4174.8
37.5°	4023.6	3971.7	3963.5	3940.6	3944.5
40°	3859.4	3815.4	3799.4	3784.3	3784.3
42.5°	3687.2	3647.1	3631.2	3620.1	3616.1
45°	3423.9	3394.6	3378.9	3368.8	3363.9
47.5°	3163.6	3136.2	3122.6	3115.5	3110.6
50°	2983.4	2963.8	2958.4	2943.3	2938.4
52.5°	2803.2	2791.5	2786.2	2767.1	2762.2
55°	2537.9	2533.0	2537.9	2502.8	2497.9
57.5°	2261.6	2269.4	2285.6	2238.3	2226.6
60°	2077.4	2097.0	2117.4	2061.9	2042.3
62.5°	1889.2	1920.5	1949.2	1885.5	1858.1
65°	1606.8	1655.8	1686.9	1620.6	1566.8
67.5°	1334.5	1395.2	1432.6	1361.2	1300.5
70°	1146.3	1214.8	1256.4	1184.8	1116.3
72.5°	982.1	1058.5	1092.3	1024.6	956.1
75°	740.8	809.4	851.0	794.2	720.8
77.5°	525.6	590.2	624.7	575.3	514.6
80°	385.4	454.0	480.6	439.4	390.4
82.5°	273.3	330.1	348.4	323.6	290.3
85°	125.1	164.3	185.2	175.0	165.2
87.5°	33.2	63.0	83.9	84.6	87.9
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: P565173

CATALOG NUMBER: SQ4-PW1-150U-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)