

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: P563637

Luminaire Tested: **SQ4-PP3-100U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563637
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-125D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

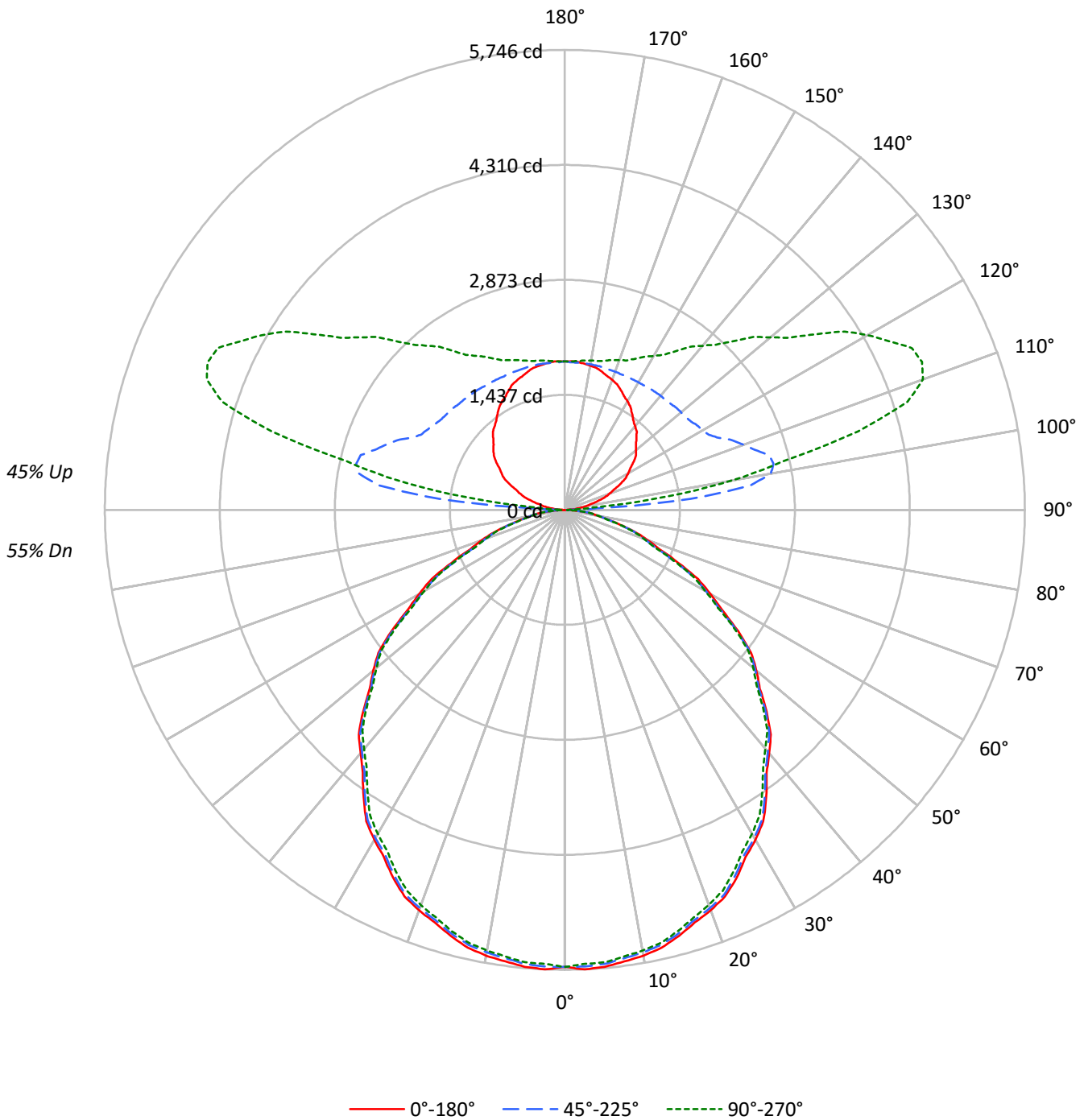
Lumens per Lamp: N/A
Luminaire Lumens: 26667.7 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 214.8
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

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	2.0
10°-20°	1541.7	5.8
20°-30°	2309.3	8.7
30°-40°	2708.7	10.2
40°-50°	2717.2	10.2
50°-60°	2318.0	8.7
60°-70°	1511.7	5.7
70°-80°	758.4	2.8
80°-90°	213.7	0.8
90°-100°	868.4	3.3
100°-110°	2397.4	9.0
110°-120°	2472.6	9.3
120°-130°	1986.9	7.5
130°-140°	1561.5	5.9
140°-150°	1197.6	4.5
150°-160°	860.7	3.2
160°-170°	526.4	2.0
170°-180°	177.5	0.7
0°-30°	4391.0	16.5
0°-40°	7099.7	26.6
0°-60°	12134.9	45.5
0°-90°	14618.8	54.8
90°-120°	5738.4	21.5
90°-150°	10484.4	39.3
90°-180°	12049.0	45.2
0°-180°	26667.7	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	12	24	27	30	15
95°	128	470	1576	648	421	137
105°	427	659	2638	4027	3792	455
115°	766	925	2124	4206	4783	752
125°	1050	1195	1926	3259	3824	935
135°	1264	1400	1872	2639	2976	978
145°	1466	1567	1848	2247	2418	918
155°	1653	1708	1834	2016	2080	762
165°	1789	1812	1842	1914	1929	504
175°	1854	1857	1846	1872	1866	176
180°	1854	1854	1854	1854	1854	

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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	62.0	68.8	69.5	74.0
90°	5.9	11.7	23.7	26.8	29.7
92.5°	53.4	221.7	396.4	144.7	112.7
95°	127.6	469.9	1575.5	647.6	421.3
97.5°	211.3	526.3	2333.9	1796.9	1301.3
100°	273.0	560.2	2614.0	2632.4	2139.2
102.5°	332.3	598.6	2668.6	3252.5	2784.9
105°	427.3	659.3	2637.7	4026.9	3791.9
107.5°	528.1	734.7	2490.5	4400.3	4486.2
110°	599.3	785.0	2376.6	4480.6	4759.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	663.4	842.1	2269.8	4417.2	4828.0
115°	765.5	925.1	2124.4	4205.6	4782.9
117.5°	854.5	1013.5	2028.9	3907.7	4564.5
120°	913.9	1070.5	1990.9	3706.0	4367.5
122.5°	970.8	1120.5	1960.0	3517.7	4144.4
125°	1050.3	1195.4	1925.6	3258.8	3824.5
127.5°	1118.0	1263.0	1905.4	3039.9	3527.8
130°	1163.1	1308.1	1895.9	2905.9	3349.8
132.5°	1205.8	1343.9	1886.4	2793.4	3195.5
135°	1264.0	1400.3	1872.2	2639.4	2975.9
137.5°	1329.2	1453.4	1865.1	2510.1	2797.3
140°	1364.8	1486.7	1860.3	2423.9	2676.3
142.5°	1405.2	1517.8	1855.6	2347.2	2569.5
145°	1465.7	1567.3	1848.5	2247.0	2418.1
147.5°	1523.9	1612.6	1841.9	2162.4	2295.3
150°	1566.6	1639.1	1839.6	2112.0	2219.4
152.5°	1599.8	1667.7	1837.2	2068.9	2157.6
155°	1652.6	1707.8	1833.6	2016.1	2079.9
157.5°	1701.3	1743.7	1834.2	1977.6	2021.2
160°	1729.8	1767.5	1836.6	1956.0	1987.9
162.5°	1753.5	1786.6	1839.0	1936.9	1961.8
165°	1789.1	1812.3	1842.5	1914.1	1928.6
167.5°	1816.4	1830.4	1845.5	1900.2	1904.8
170°	1830.7	1842.3	1845.5	1893.0	1893.0
172.5°	1842.5	1849.5	1845.5	1883.4	1881.1
175°	1854.4	1857.3	1845.5	1872.1	1866.3
177.5°	1859.2	1856.8	1844.9	1861.4	1856.8
180°	1854.4	1854.4	1854.4	1854.4	1854.4

(END OF REPORT)