

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: P562965

Luminaire Tested: **SQ4-PC3-100U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562965
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-125D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

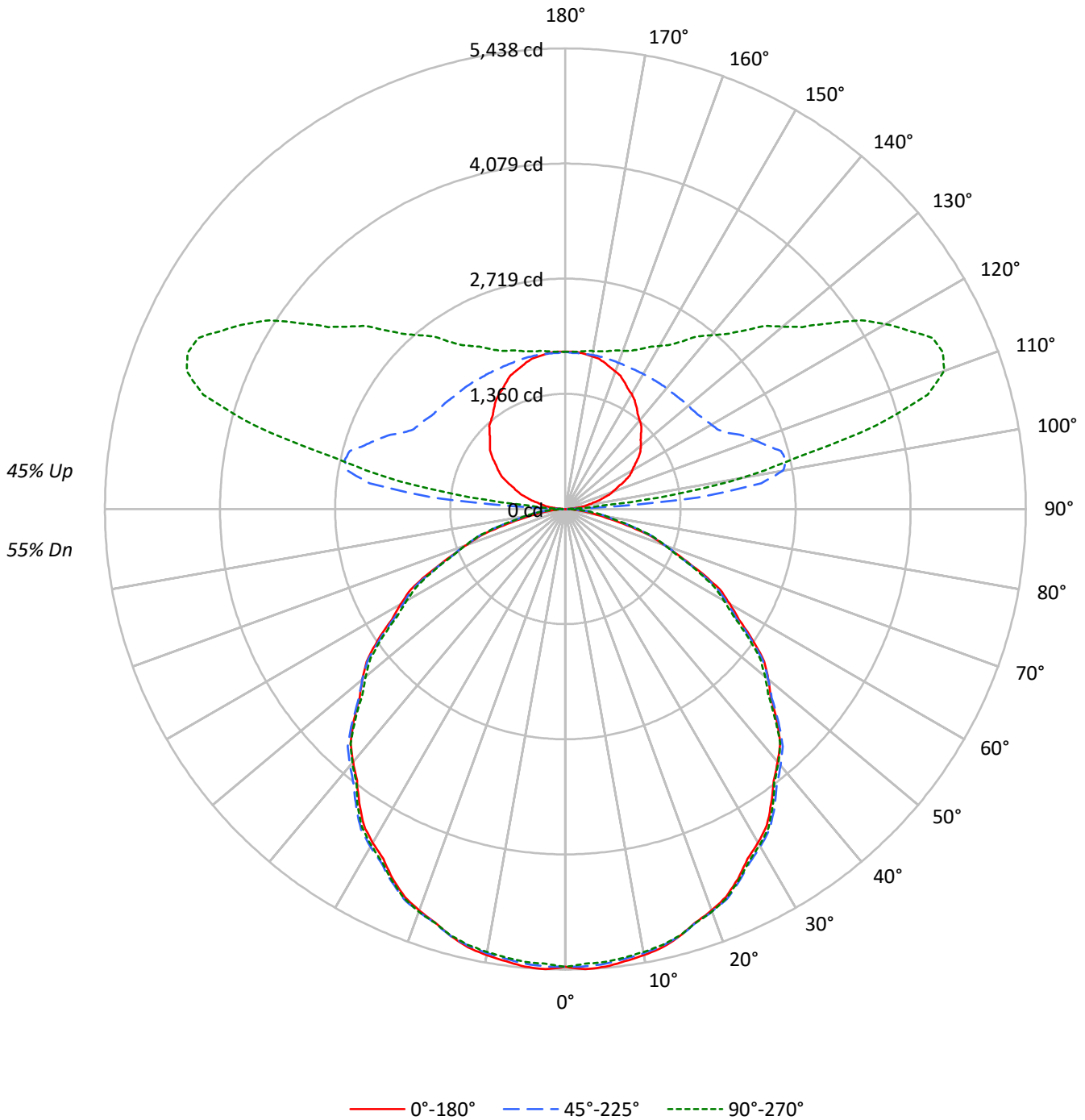
Lumens per Lamp: N/A
Luminaire Lumens: 26807.3 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	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	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47				
2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39				
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33				
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28				
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24				
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21				
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19				
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17				
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15				
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14				

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	1.9
10°-20°	1468.3	5.5
20°-30°	2223.5	8.3
30°-40°	2665.7	9.9
40°-50°	2718.1	10.1
50°-60°	2372.7	8.9
60°-70°	1698.6	6.3
70°-80°	874.9	3.3
80°-90°	225.1	0.8
90°-100°	868.4	3.2
100°-110°	2397.4	8.9
110°-120°	2472.6	9.2
120°-130°	1986.9	7.4
130°-140°	1561.5	5.8
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°	4203.4	15.7
0°-40°	6869.0	25.6
0°-60°	11959.8	44.6
0°-90°	14758.4	55.1
90°-120°	5738.4	21.4
90°-150°	10484.4	39.1
90°-180°	12049.0	44.9
0°-180°	26807.3	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	12	24	27	30	13
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°	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	69.6	84.8	85.3	78.0
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)