

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: P562968

Luminaire Tested: **SQ4-PC3-100U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562968
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-8
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

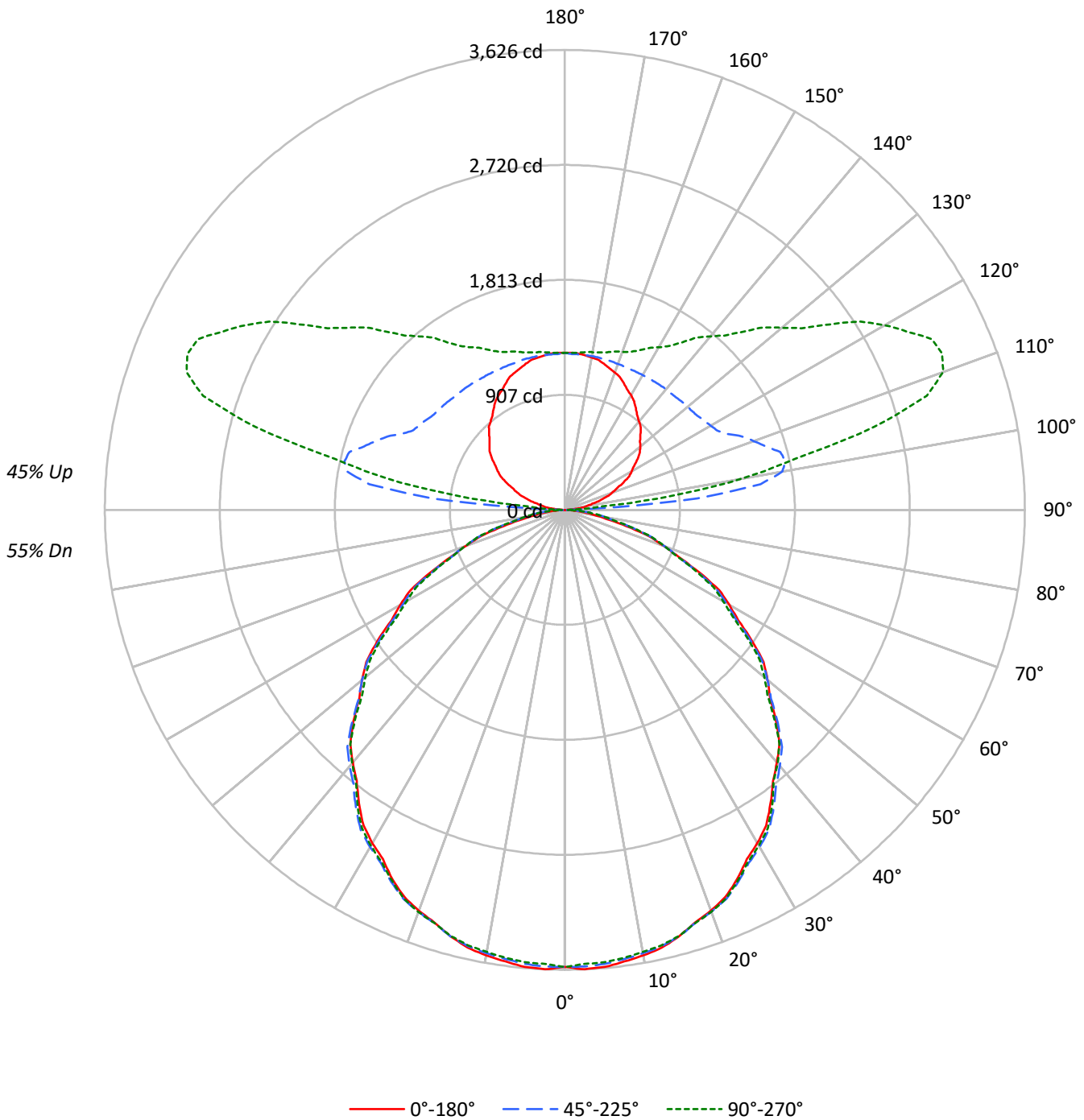
Lumens per Lamp: N/A
Luminaire Lumens: 17871.5 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 140.6
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°	16752	16643	16582
10°	16711	16632	16586
15°	16623	16623	16607
20°	16514	16563	16563
25°	16358	16476	16425
30°	16159	16354	16283
35°	15918	16163	16049
40°	15655	15876	15716
45°	15370	15479	15240
50°	14968	14968	14729
55°	14494	14306	14091
60°	13793	13516	13301
65°	12749	12494	12385
70°	11163	11253	11208
75°	8981	9933	9992
80°	6384	8421	8512
85°	3885	7066	7066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	1.9
10°-20°	978.8	5.5
20°-30°	1482.3	8.3
30°-40°	1777.1	9.9
40°-50°	1812.0	10.1
50°-60°	1581.8	8.9
60°-70°	1132.4	6.3
70°-80°	583.3	3.3
80°-90°	150.0	0.8
90°-100°	579.0	3.2
100°-110°	1598.3	8.9
110°-120°	1648.4	9.2
120°-130°	1324.6	7.4
130°-140°	1041.0	5.8
140°-150°	798.4	4.5
150°-160°	573.8	3.2
160°-170°	350.9	2.0
170°-180°	118.3	0.7
0°-30°	2802.2	15.7
0°-40°	4579.4	25.6
0°-60°	7973.2	44.6
0°-90°	9838.9	55.1
90°-120°	3825.6	21.4
90°-150°	6989.6	39.1
90°-180°	8033.0	44.9
0°-180°	17871.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3604	3604	3604	3604	3604	
5°	3618	3582	3594	3584	3581	343
15°	3481	3451	3481	3481	3477	981
25°	3214	3191	3237	3227	3227	1479
35°	2827	2820	2870	2850	2850	1768
45°	2356	2350	2373	2342	2336	1814
55°	1802	1779	1779	1752	1752	1606
65°	1168	1142	1145	1135	1135	1155
75°	504	527	557	561	561	545
85°	73	113	134	137	134	100
90°	4	8	16	18	20	9
95°	85	313	1050	432	281	91
105°	285	440	1758	2685	2528	303
115°	510	617	1416	2804	3189	501
125°	700	797	1284	2172	2550	623
135°	843	934	1248	1760	1984	652
145°	977	1045	1232	1498	1612	612
155°	1102	1138	1222	1344	1387	508
165°	1193	1208	1228	1276	1286	336
175°	1236	1238	1230	1248	1244	117
180°	1236	1236	1236	1236	1236	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3604.1	3604.1	3604.1	3604.1	3604.1
2.5°	3625.5	3594.2	3604.1	3595.8	3582.8
5°	3617.5	3581.6	3594.1	3584.0	3580.8
7.5°	3591.4	3555.6	3572.1	3565.3	3562.1
10°	3567.4	3531.5	3550.7	3544.0	3540.7
12.5°	3535.4	3502.1	3524.0	3517.3	3516.7
15°	3480.7	3451.3	3480.7	3480.6	3477.3
17.5°	3411.9	3385.2	3416.6	3418.5	3416.6
20°	3363.9	3334.5	3373.9	3370.6	3373.9
22.5°	3305.1	3281.0	3323.1	3314.5	3317.8
25°	3213.7	3190.8	3237.0	3227.0	3227.0
27.5°	3105.6	3089.2	3139.6	3128.9	3128.9
30°	3033.5	3017.2	3070.2	3056.8	3056.8
32.5°	2953.4	2942.3	2992.8	2976.7	2976.7
35°	2826.6	2820.0	2870.0	2849.9	2849.9
37.5°	2695.8	2689.9	2735.1	2710.9	2703.1
40°	2599.6	2596.4	2636.4	2609.7	2609.7
42.5°	2503.5	2500.3	2534.9	2502.9	2502.9
45°	2356.0	2349.5	2372.7	2342.5	2336.0
47.5°	2195.2	2188.7	2203.2	2170.4	2167.1
50°	2085.7	2079.2	2085.7	2055.6	2052.4
52.5°	1973.6	1961.8	1962.9	1932.9	1932.2
55°	1802.1	1779.2	1778.7	1752.0	1752.0
57.5°	1620.5	1590.5	1593.2	1570.4	1567.1
60°	1495.0	1462.4	1465.0	1444.9	1441.7
62.5°	1372.2	1334.4	1342.2	1319.5	1318.8
65°	1168.0	1141.9	1144.6	1134.6	1134.6
67.5°	971.8	947.6	965.1	957.1	956.4
70°	827.6	811.3	834.3	834.2	831.0
72.5°	694.1	693.5	722.2	722.2	724.2
75°	503.9	526.8	557.3	560.6	560.6
77.5°	336.4	376.8	410.5	411.8	411.1
80°	240.3	286.0	317.0	323.6	320.4
82.5°	162.9	211.1	236.9	243.5	240.3
85°	73.4	112.6	133.5	136.7	133.5
87.5°	22.1	46.4	56.6	56.8	52.0
90°	4.0	7.8	15.8	17.8	19.8
92.5°	35.6	147.8	264.3	96.4	75.2
95°	85.1	313.3	1050.3	431.7	280.9
97.5°	140.8	350.9	1555.9	1197.9	867.6
100°	182.0	373.5	1742.6	1755.0	1426.2
102.5°	221.5	399.1	1779.0	2168.4	1856.6
105°	284.8	439.6	1758.5	2684.6	2527.9
107.5°	352.1	489.8	1660.4	2933.5	2990.8
110°	399.6	523.3	1584.4	2987.1	3172.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	442.3	561.4	1513.2	2944.8	3218.7
115°	510.3	616.7	1416.3	2803.7	3188.6
117.5°	569.7	675.7	1352.6	2605.1	3043.0
120°	609.2	713.7	1327.3	2470.7	2911.7
122.5°	647.2	747.0	1306.7	2345.2	2762.9
125°	700.2	796.9	1283.7	2172.5	2549.7
127.5°	745.3	842.0	1270.3	2026.6	2351.9
130°	775.4	872.1	1264.0	1937.3	2233.2
132.5°	803.9	895.9	1257.6	1862.3	2130.3
135°	842.6	933.5	1248.1	1759.6	1984.0
137.5°	886.2	968.9	1243.4	1673.4	1864.9
140°	909.9	991.1	1240.2	1615.9	1784.2
142.5°	936.8	1011.8	1237.1	1564.8	1713.0
145°	977.1	1044.8	1232.3	1498.0	1612.1
147.5°	1015.9	1075.1	1228.0	1441.6	1530.2
150°	1044.4	1092.8	1226.4	1408.0	1479.6
152.5°	1066.6	1111.8	1224.8	1379.2	1438.4
155°	1101.8	1138.5	1222.4	1344.1	1386.6
157.5°	1134.2	1162.4	1222.8	1318.4	1347.4
160°	1153.2	1178.3	1224.4	1304.0	1325.3
162.5°	1169.0	1191.1	1226.0	1291.2	1307.9
165°	1192.8	1208.2	1228.4	1276.1	1285.7
167.5°	1211.0	1220.2	1230.3	1266.8	1269.9
170°	1220.4	1228.2	1230.3	1262.0	1262.0
172.5°	1228.4	1233.0	1230.3	1255.6	1254.1
175°	1236.3	1238.2	1230.3	1248.1	1244.2
177.5°	1239.4	1237.9	1229.9	1240.9	1237.9
180°	1236.3	1236.3	1236.3	1236.3	1236.3

(END OF REPORT)