

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: P562776

Luminaire Tested: **SQ4-PC3-075U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562776
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-125D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

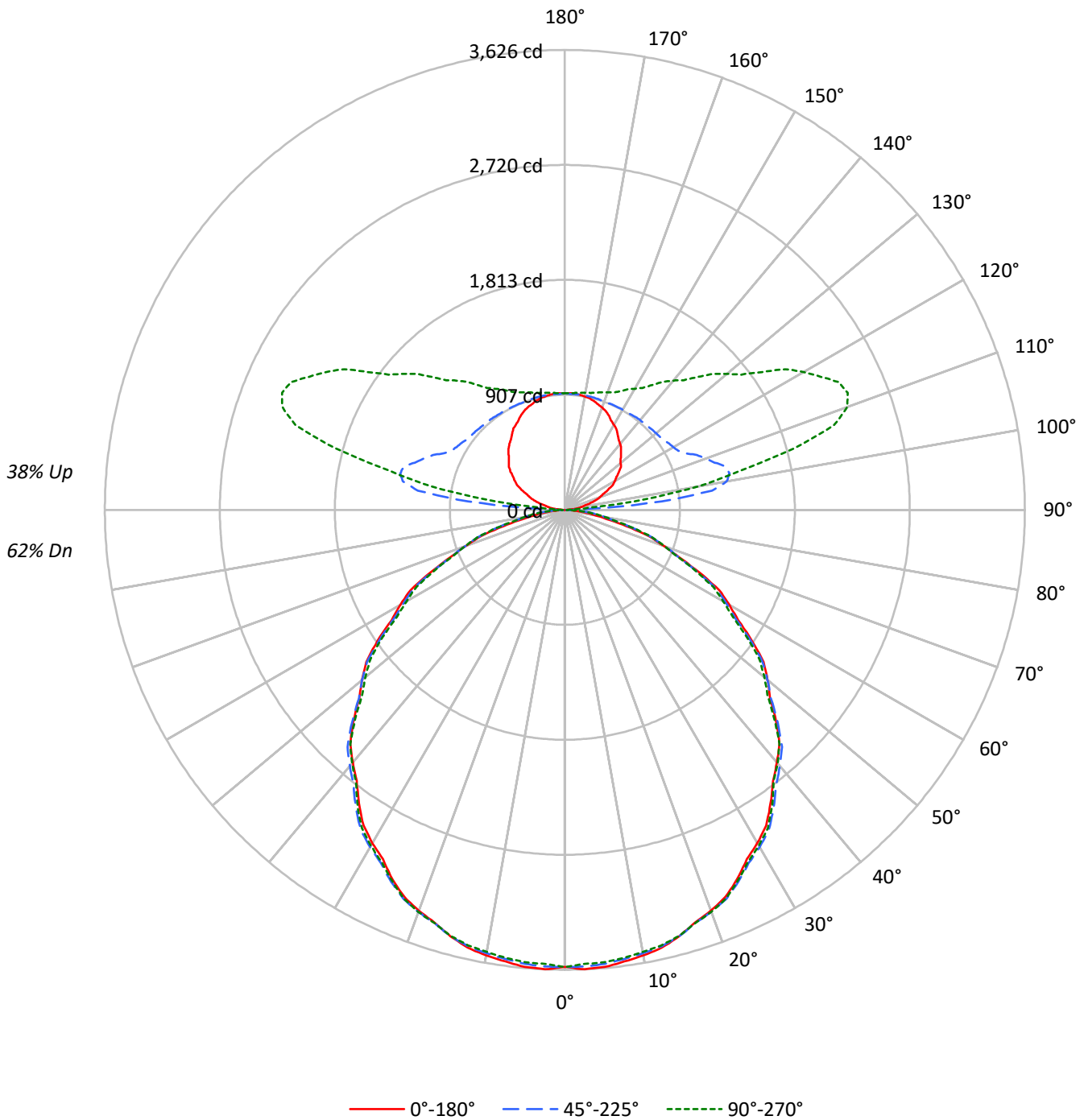
Lumens per Lamp: N/A
Luminaire Lumens: 15826.2 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 127.7
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	58	57	53
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48	44
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

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	2.2
10°-20°	978.8	6.2
20°-30°	1482.3	9.4
30°-40°	1777.1	11.2
40°-50°	1812.0	11.4
50°-60°	1581.8	10.0
60°-70°	1132.4	7.2
70°-80°	583.3	3.7
80°-90°	149.8	0.9
90°-100°	433.5	2.7
100°-110°	1192.6	7.5
110°-120°	1231.0	7.8
120°-130°	986.3	6.2
130°-140°	774.7	4.9
140°-150°	593.7	3.8
150°-160°	426.8	2.7
160°-170°	261.0	1.6
170°-180°	88.0	0.6
0°-30°	2802.2	17.7
0°-40°	4579.4	28.9
0°-60°	7973.2	50.4
0°-90°	9838.7	62.2
90°-120°	2857.1	18.1
90°-150°	5211.7	32.9
90°-180°	5988.0	37.8
0°-180°	15826.2	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°	2	8	14	18	18	7
95°	64	237	767	328	209	68
105°	213	328	1314	2001	1868	225
115°	377	460	1054	2099	2382	372
125°	520	593	956	1618	1895	464
135°	628	697	929	1308	1480	484
145°	726	775	915	1115	1201	455
155°	821	848	909	1002	1031	377
165°	888	899	913	950	956	250
175°	919	921	915	927	925	87
180°	919	919	919	919	919	

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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°	21.7	46.4	56.1	56.8	51.6
90°	2.0	7.7	13.7	17.6	17.6
92.5°	27.0	115.3	199.9	76.7	63.0
95°	64.5	236.6	766.6	327.8	209.2
97.5°	105.2	262.4	1169.8	901.3	635.9
100°	134.9	278.3	1296.5	1308.6	1067.7
102.5°	163.1	297.3	1329.4	1623.5	1402.5
105°	213.2	327.9	1314.1	2001.4	1867.5
107.5°	260.9	365.6	1239.4	2186.4	2226.2
110°	295.3	390.9	1183.1	2232.4	2370.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	326.6	419.1	1126.8	2202.8	2412.3
115°	377.4	459.6	1054.0	2098.8	2381.8
117.5°	425.9	501.6	1007.9	1953.0	2273.1
120°	455.6	528.3	987.5	1843.8	2174.6
122.5°	482.2	554.9	973.5	1747.9	2061.9
125°	520.2	592.8	956.3	1617.7	1894.9
127.5°	556.2	625.4	944.9	1508.9	1752.2
130°	574.9	645.7	938.7	1444.3	1666.1
132.5°	596.8	667.6	934.0	1387.5	1587.9
135°	627.7	696.6	928.9	1308.3	1480.3
137.5°	656.7	720.5	924.6	1244.2	1386.1
140°	678.6	737.8	923.0	1201.7	1329.8
142.5°	697.3	752.0	919.9	1163.7	1273.4
145°	725.5	775.2	915.2	1114.7	1200.7
147.5°	755.6	798.4	912.8	1071.2	1140.1
150°	774.4	812.6	911.3	1047.4	1101.0
152.5°	791.6	826.8	909.7	1026.9	1071.2
155°	821.3	848.1	909.3	1001.9	1030.6
157.5°	842.8	864.6	909.3	981.3	1001.2
160°	858.5	875.7	909.3	970.3	985.6
162.5°	871.0	885.1	910.9	960.8	973.1
165°	887.8	899.3	913.2	950.5	956.3
167.5°	899.5	908.3	915.2	941.8	943.3
170°	907.4	913.1	915.2	938.7	938.7
172.5°	913.6	916.3	915.2	933.9	932.4
175°	919.1	921.0	915.2	926.9	925.0
177.5°	920.7	920.7	914.4	923.7	920.7
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)