

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: P562684

Luminaire Tested: **SQ4-PC3-050U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562684
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

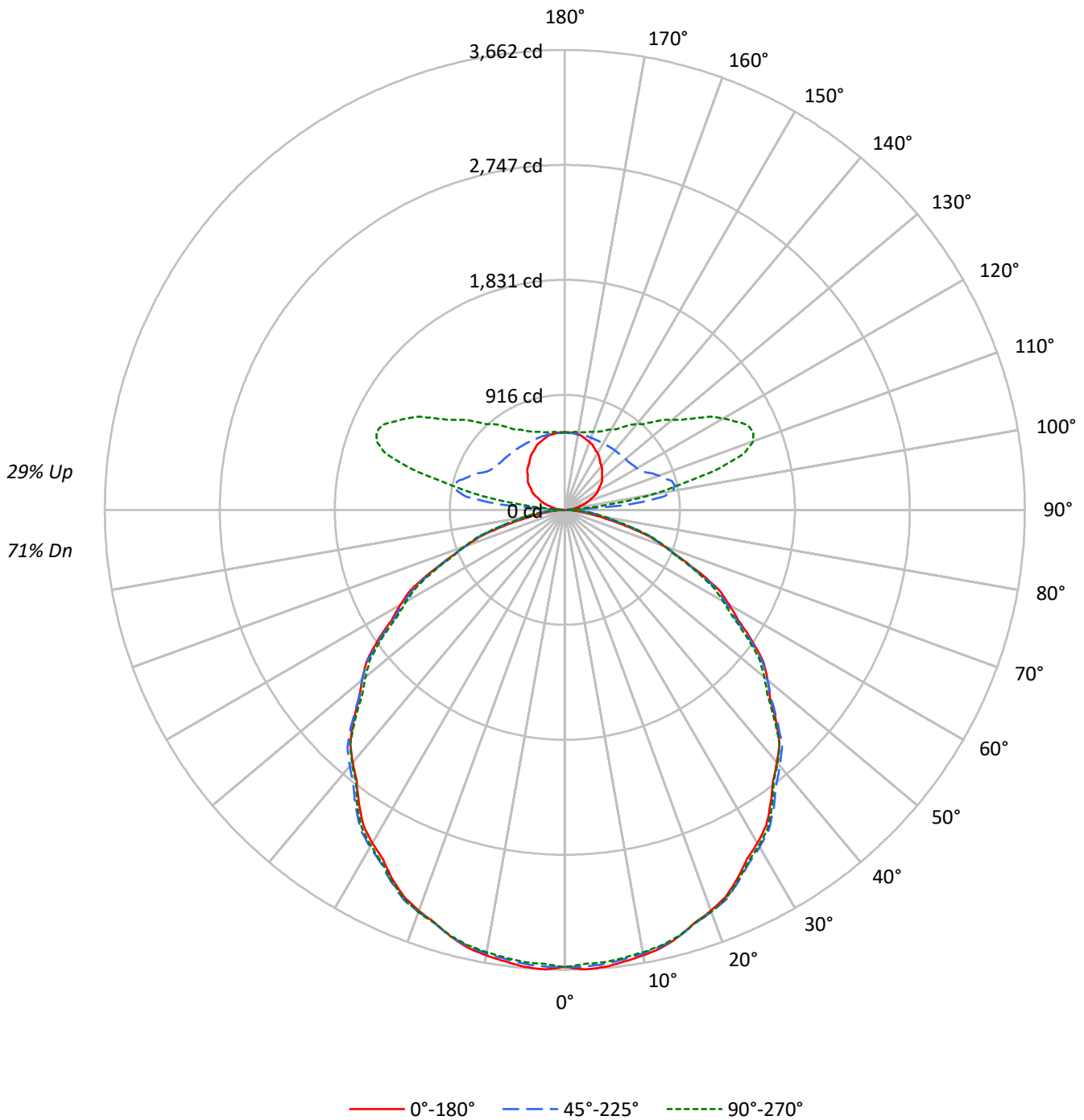
Lumens per Lamp: N/A
Luminaire Lumens: 13961.6 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 114.8
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16753
15°	16790	16790	16774
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15873
45°	15525	15635	15393
50°	15119	15119	14877
55°	14639	14450	14232
60°	13932	13653	13435
65°	12878	12621	12510
70°	11274	11366	11320
75°	9072	10033	10094
80°	6448	8506	8597
85°	3927	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	2.5
10°-20°	988.7	7.1
20°-30°	1497.2	10.7
30°-40°	1795.0	12.9
40°-50°	1830.3	13.1
50°-60°	1597.7	11.4
60°-70°	1143.8	8.2
70°-80°	589.1	4.2
80°-90°	151.3	1.1
90°-100°	295.8	2.1
100°-110°	803.7	5.8
110°-120°	826.3	5.9
120°-130°	660.7	4.7
130°-140°	519.1	3.7
140°-150°	398.0	2.9
150°-160°	286.2	2.1
160°-170°	175.1	1.3
170°-180°	59.0	0.4
0°-30°	2830.4	20.3
0°-40°	4625.4	33.1
0°-60°	8053.4	57.7
0°-90°	9937.7	71.2
90°-120°	1925.8	13.8
90°-150°	3503.7	25.1
90°-180°	4024.0	28.8
0°-180°	13961.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3640	3640	3640	3640	3640	
5°	3654	3618	3630	3620	3617	347
15°	3516	3486	3516	3516	3512	991
25°	3246	3223	3270	3260	3260	1494
35°	2855	2848	2899	2879	2879	1786
45°	2380	2373	2397	2366	2360	1832
55°	1820	1797	1797	1770	1770	1623
65°	1180	1153	1156	1146	1146	1167
75°	509	532	563	566	566	550
85°	74	114	135	138	135	101
90°	2	8	14	18	18	6
95°	44	162	515	224	151	46
105°	143	222	884	1346	1266	152
115°	254	308	707	1407	1603	250
125°	349	397	640	1078	1272	311
135°	420	467	622	878	991	325
145°	486	520	614	746	803	305
155°	549	568	610	670	690	253
165°	594	602	612	638	640	168
175°	616	618	614	622	620	59
180°	616	616	616	616	616	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3640.4	3640.4	3640.4	3640.4	3640.4
2.5°	3662.0	3630.3	3640.4	3632.0	3618.8
5°	3653.9	3617.6	3630.3	3620.1	3616.8
7.5°	3627.6	3591.3	3608.0	3601.2	3597.9
10°	3603.3	3567.1	3586.5	3579.6	3576.4
12.5°	3571.0	3537.3	3559.5	3552.7	3552.1
15°	3515.7	3486.0	3515.7	3515.6	3512.3
17.5°	3446.2	3419.2	3451.0	3452.9	3451.0
20°	3397.7	3368.0	3407.8	3404.5	3407.8
22.5°	3338.4	3314.0	3356.6	3347.9	3351.2
25°	3246.0	3222.9	3269.6	3259.5	3259.5
27.5°	3136.8	3120.3	3171.2	3160.4	3160.4
30°	3064.0	3047.5	3101.1	3087.6	3087.6
32.5°	2983.1	2971.9	3022.9	3006.7	3006.7
35°	2855.0	2848.4	2898.8	2878.6	2878.6
37.5°	2722.9	2716.9	2762.7	2738.2	2730.3
40°	2625.8	2622.5	2662.9	2635.9	2635.9
42.5°	2528.7	2525.4	2560.4	2528.1	2528.1
45°	2379.7	2373.1	2396.6	2366.1	2359.5
47.5°	2217.3	2210.7	2225.4	2192.3	2189.0
50°	2106.7	2100.1	2106.7	2076.3	2073.0
52.5°	1993.5	1981.6	1982.7	1952.3	1951.7
55°	1820.2	1797.1	1796.6	1769.6	1769.6
57.5°	1636.8	1606.5	1609.2	1586.2	1582.9
60°	1510.1	1477.1	1479.8	1459.5	1456.2
62.5°	1386.0	1347.8	1355.7	1332.8	1332.1
65°	1179.8	1153.4	1156.2	1146.1	1146.1
67.5°	981.6	957.2	974.8	966.7	966.1
70°	835.9	819.5	842.7	842.6	839.3
72.5°	701.1	700.5	729.4	729.5	731.4
75°	509.0	532.1	562.9	566.3	566.3
77.5°	339.8	380.6	414.6	415.9	415.3
80°	242.7	288.8	320.2	326.9	323.6
82.5°	164.5	213.3	239.3	246.0	242.7
85°	74.2	113.7	134.8	138.1	134.8
87.5°	22.0	46.9	56.7	57.4	52.1
90°	2.0	7.8	13.9	17.8	17.8
92.5°	17.8	81.0	140.7	60.4	51.1
95°	43.6	161.8	515.2	224.2	150.6
97.5°	72.1	178.7	789.9	614.5	431.6
100°	91.2	190.0	873.9	885.9	715.4
102.5°	110.2	201.2	896.1	1095.6	945.2
105°	142.7	222.1	883.8	1345.7	1266.3
107.5°	176.4	246.5	832.7	1474.8	1496.9
110°	200.1	264.1	794.6	1500.3	1595.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.8	281.6	756.6	1479.2	1622.2
115°	253.6	307.9	707.4	1407.4	1603.1
117.5°	284.6	336.5	676.1	1305.8	1526.3
120°	305.2	355.5	661.9	1237.6	1456.5
122.5°	322.6	373.0	652.4	1169.2	1380.4
125°	348.8	397.2	640.1	1078.4	1272.2
127.5°	372.2	420.2	633.3	1009.7	1175.9
130°	386.4	432.9	630.2	966.5	1115.7
132.5°	400.7	447.2	627.0	929.6	1061.8
135°	420.1	466.6	622.2	878.4	990.8
137.5°	441.1	483.4	619.9	833.2	927.8
140°	453.8	494.5	618.3	804.5	889.8
142.5°	466.5	504.1	616.7	782.0	853.3
145°	485.5	520.4	614.3	746.4	802.6
147.5°	506.9	536.7	612.3	718.4	762.5
150°	521.2	546.4	612.3	702.3	737.2
152.5°	532.3	554.4	610.7	687.9	716.6
155°	548.9	568.3	610.3	670.2	689.6
157.5°	565.2	580.3	610.3	658.2	673.0
160°	574.7	588.2	610.3	650.2	661.9
162.5°	584.2	594.6	611.9	643.8	652.4
165°	594.5	602.2	612.3	638.1	640.1
167.5°	605.2	609.1	614.3	631.4	632.9
170°	608.4	612.2	614.3	628.2	628.2
172.5°	611.5	613.9	614.3	625.0	625.0
175°	616.3	618.2	614.3	622.2	620.3
177.5°	617.9	617.9	613.1	619.4	616.3
180°	616.3	616.3	616.3	616.3	616.3

(END OF REPORT)