

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: P562792

Luminaire Tested: **SQ4-PC3-075U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562792
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

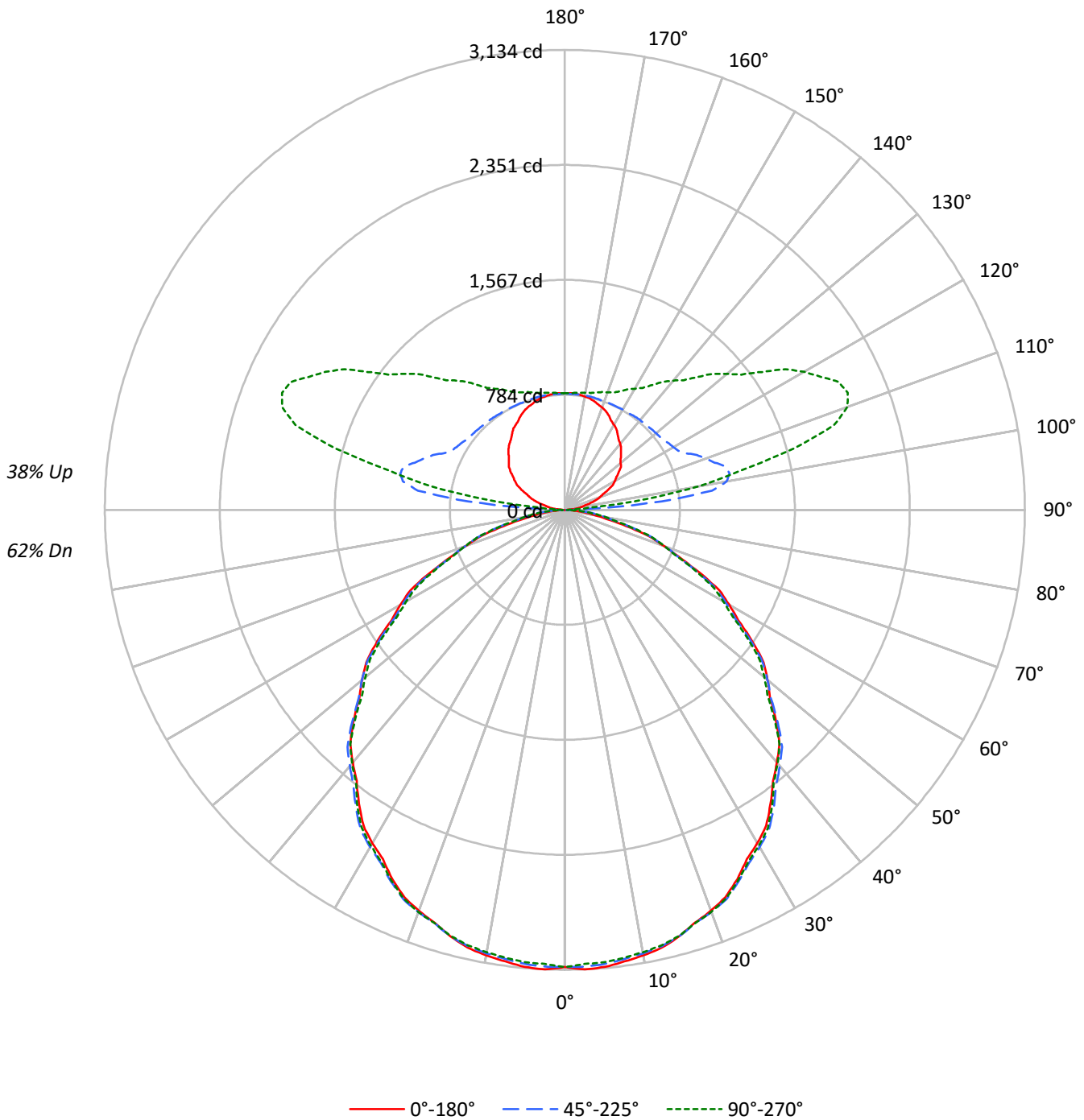
Lumens per Lamp: N/A
Luminaire Lumens: 13681.5 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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°	14373	14373	14373
5°	14481	14388	14334
10°	14446	14378	14338
15°	14370	14370	14357
20°	14276	14318	14318
25°	14141	14244	14200
30°	13969	14138	14076
35°	13761	13972	13874
40°	13533	13725	13586
45°	13287	13382	13174
50°	12940	12940	12733
55°	12530	12367	12181
60°	11924	11685	11499
65°	11021	10801	10707
70°	9651	9727	9688
75°	7764	8587	8639
80°	5518	7282	7359
85°	3361	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	2.2
10°-20°	846.2	6.2
20°-30°	1281.4	9.4
30°-40°	1536.3	11.2
40°-50°	1566.5	11.4
50°-60°	1367.4	10.0
60°-70°	979.0	7.2
70°-80°	504.2	3.7
80°-90°	129.5	0.9
90°-100°	374.7	2.7
100°-110°	1031.0	7.5
110°-120°	1064.2	7.8
120°-130°	852.6	6.2
130°-140°	669.7	4.9
140°-150°	513.2	3.8
150°-160°	369.0	2.7
160°-170°	225.6	1.6
170°-180°	76.1	0.6
0°-30°	2422.5	17.7
0°-40°	3958.8	28.9
0°-60°	6892.7	50.4
0°-90°	8505.4	62.2
90°-120°	2470.0	18.1
90°-150°	4505.5	32.9
90°-180°	5176.0	37.8
0°-180°	13681.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3116	3116	3116	3116	3116	
5°	3127	3096	3107	3098	3096	297
15°	3009	2984	3009	3009	3006	848
25°	2778	2758	2798	2790	2790	1279
35°	2444	2438	2481	2464	2464	1528
45°	2037	2031	2051	2025	2019	1568
55°	1558	1538	1538	1515	1515	1389
65°	1010	987	990	981	981	999
75°	436	455	482	485	485	471
85°	64	97	115	118	115	86
90°	2	7	12	15	15	6
95°	56	205	663	283	181	59
105°	184	283	1136	1730	1614	194
115°	326	397	911	1814	2059	322
125°	450	512	827	1398	1638	401
135°	543	602	803	1131	1280	419
145°	627	670	791	964	1038	393
155°	710	733	786	866	891	326
165°	768	777	790	822	827	216
175°	794	796	791	801	800	75
180°	794	794	794	794	794	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3115.7	3115.7	3115.7	3115.7	3115.7
2.5°	3134.2	3107.1	3115.7	3108.5	3097.2
5°	3127.2	3096.2	3107.0	3098.3	3095.5
7.5°	3104.7	3073.7	3088.0	3082.2	3079.4
10°	3084.0	3052.9	3069.5	3063.7	3060.9
12.5°	3056.3	3027.5	3046.5	3040.7	3040.1
15°	3009.0	2983.6	3009.0	3008.9	3006.1
17.5°	2949.5	2926.4	2953.6	2955.3	2953.6
20°	2908.0	2882.6	2916.6	2913.8	2916.6
22.5°	2857.2	2836.3	2872.8	2865.4	2868.2
25°	2778.2	2758.4	2798.4	2789.7	2789.7
27.5°	2684.7	2670.6	2714.1	2704.9	2704.9
30°	2622.4	2608.3	2654.1	2642.6	2642.6
32.5°	2553.1	2543.6	2587.2	2573.3	2573.3
35°	2443.5	2437.9	2481.0	2463.7	2463.7
37.5°	2330.4	2325.4	2364.5	2343.5	2336.8
40°	2247.3	2244.5	2279.1	2256.0	2256.0
42.5°	2164.3	2161.4	2191.4	2163.7	2163.7
45°	2036.7	2031.1	2051.2	2025.1	2019.4
47.5°	1897.7	1892.1	1904.6	1876.3	1873.5
50°	1803.1	1797.4	1803.1	1777.0	1774.2
52.5°	1706.1	1696.0	1696.9	1670.9	1670.4
55°	1557.9	1538.1	1537.7	1514.6	1514.6
57.5°	1400.9	1375.0	1377.3	1357.6	1354.8
60°	1292.4	1264.2	1266.5	1249.1	1246.3
62.5°	1186.3	1153.6	1160.3	1140.7	1140.1
65°	1009.7	987.2	989.5	980.9	980.9
67.5°	840.1	819.2	834.3	827.4	826.8
70°	715.5	701.4	721.2	721.2	718.3
72.5°	600.1	599.5	624.3	624.3	626.0
75°	435.6	455.4	481.8	484.7	484.7
77.5°	290.8	325.8	354.8	356.0	355.4
80°	207.7	247.2	274.1	279.8	277.0
82.5°	140.8	182.5	204.8	210.5	207.7
85°	63.5	97.3	115.4	118.2	115.4
87.5°	18.8	40.1	48.5	49.1	44.6
90°	1.7	6.6	11.8	15.2	15.2
92.5°	23.3	99.7	172.8	66.3	54.4
95°	55.8	204.6	662.7	283.4	180.9
97.5°	90.9	226.8	1011.3	779.2	549.8
100°	116.6	240.6	1120.8	1131.3	923.0
102.5°	141.0	257.0	1149.2	1403.5	1212.4
105°	184.3	283.4	1136.0	1730.2	1614.4
107.5°	225.5	316.1	1071.5	1890.1	1924.5
110°	255.3	337.9	1022.8	1929.9	2048.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.3	362.3	974.1	1904.3	2085.4
115°	326.3	397.3	911.2	1814.4	2059.1
117.5°	368.2	433.7	871.3	1688.4	1965.1
120°	393.9	456.7	853.7	1593.9	1879.9
122.5°	416.9	479.7	841.5	1511.1	1782.5
125°	449.7	512.5	826.7	1398.4	1638.1
127.5°	480.8	540.6	816.9	1304.4	1514.7
130°	497.0	558.2	811.4	1248.6	1440.3
132.5°	515.9	577.1	807.4	1199.5	1372.7
135°	542.7	602.2	803.0	1131.0	1279.7
137.5°	567.7	622.9	799.3	1075.6	1198.2
140°	586.6	637.9	797.9	1038.8	1149.6
142.5°	602.8	650.1	795.2	1006.0	1100.9
145°	627.2	670.2	791.2	963.6	1038.0
147.5°	653.2	690.2	789.1	926.1	985.6
150°	669.4	702.5	787.8	905.5	951.8
152.5°	684.3	714.7	786.4	887.7	926.1
155°	710.0	733.2	786.1	866.1	890.9
157.5°	728.6	747.5	786.1	848.4	865.5
160°	742.1	757.0	786.1	838.8	852.0
162.5°	753.0	765.2	787.4	830.6	841.2
165°	767.5	777.4	789.5	821.7	826.7
167.5°	777.6	785.2	791.2	814.2	815.5
170°	784.4	789.4	791.2	811.4	811.4
172.5°	789.8	792.1	791.2	807.4	806.0
175°	794.5	796.2	791.2	801.3	799.6
177.5°	795.9	795.9	790.5	798.5	795.9
180°	794.5	794.5	794.5	794.5	794.5

(END OF REPORT)