

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: P563464

Luminaire Tested: **SQ4-PP3-075U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563464
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

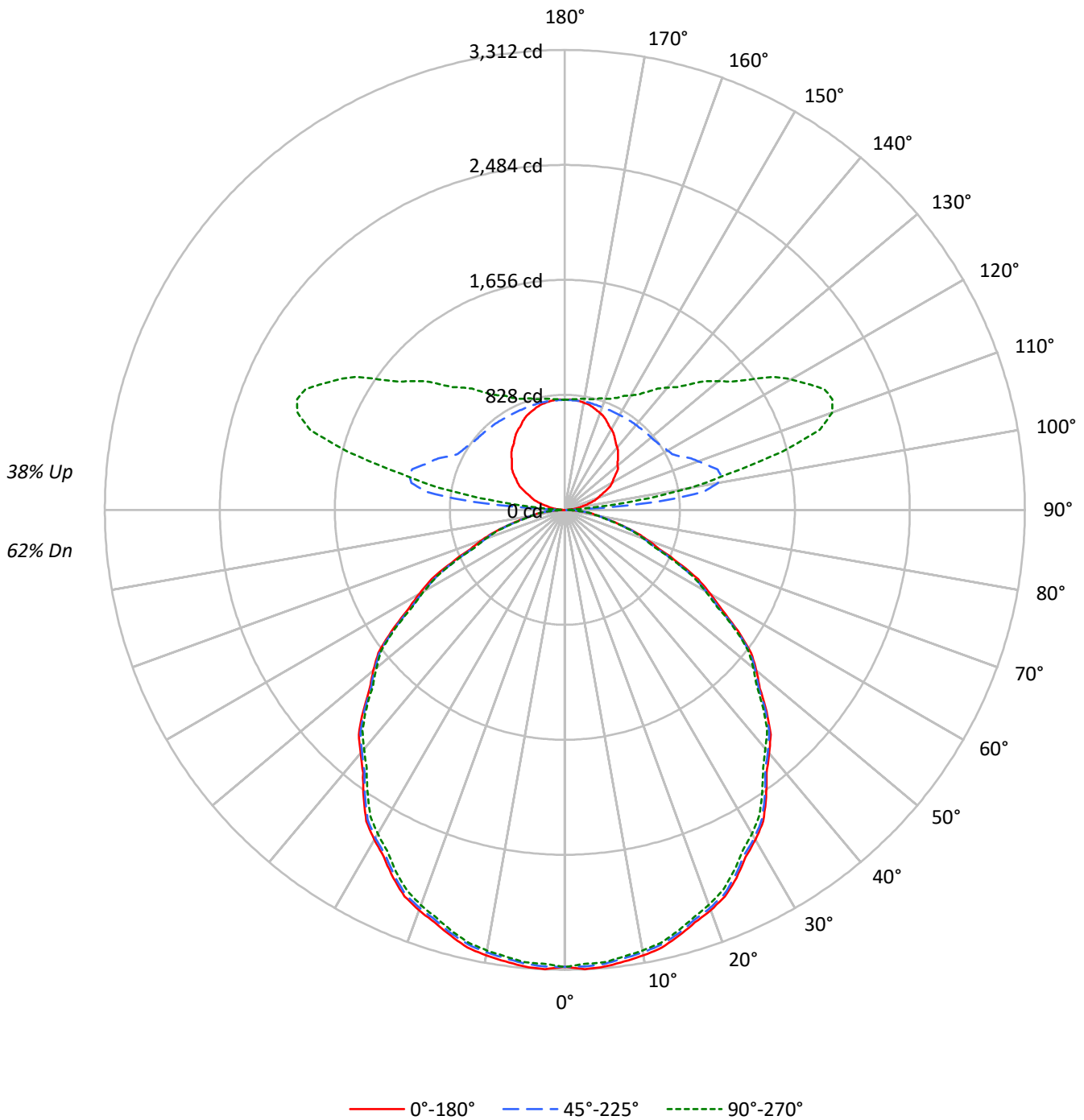
Lumens per Lamp: N/A
Luminaire Lumens: 13601.1 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15159	15091
15°	15166	15083	15000
20°	15065	14980	14867
25°	14886	14783	14637
30°	14611	14534	14350
35°	14229	14131	13952
40°	13773	13687	13530
45°	13398	13303	13172
50°	12917	12833	12709
55°	12248	12086	11992
60°	11150	10831	10777
65°	9823	9414	9382
70°	8481	8130	8130
75°	7301	7197	7094
80°	6437	6514	6360
85°	5039	5494	5494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	2.3
10°-20°	888.5	6.5
20°-30°	1330.9	9.8
30°-40°	1561.1	11.5
40°-50°	1566.0	11.5
50°-60°	1335.9	9.8
60°-70°	871.2	6.4
70°-80°	437.1	3.2
80°-90°	123.0	0.9
90°-100°	374.7	2.8
100°-110°	1031.0	7.6
110°-120°	1064.2	7.8
120°-130°	852.6	6.3
130°-140°	669.7	4.9
140°-150°	513.2	3.8
150°-160°	369.0	2.7
160°-170°	225.6	1.7
170°-180°	76.1	0.6
0°-30°	2530.6	18.6
0°-40°	4091.7	30.1
0°-60°	6993.6	51.4
0°-90°	8424.9	61.9
90°-120°	2470.0	18.2
90°-150°	4505.5	33.1
90°-180°	5176.0	38.1
0°-180°	13601.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3302	3271	3282	3271	3271	314
15°	3176	3144	3158	3147	3141	896
25°	2925	2891	2904	2878	2876	1345
35°	2527	2501	2509	2480	2478	1578
45°	2054	2040	2039	2019	2019	1581
55°	1523	1517	1503	1494	1491	1353
65°	900	883	862	857	860	898
75°	410	410	404	401	398	444
85°	95	104	104	104	104	112
90°	2	7	12	15	15	7
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°	3290.9	3290.9	3290.9	3290.9	3290.9
2.5°	3311.7	3284.6	3290.9	3286.0	3272.4
5°	3302.4	3271.4	3282.2	3270.7	3270.7
7.5°	3279.9	3246.1	3256.9	3245.3	3244.8
10°	3259.2	3225.3	3236.1	3224.5	3221.7
12.5°	3229.2	3195.3	3208.4	3194.6	3194.0
15°	3175.5	3144.5	3158.2	3146.6	3140.9
17.5°	3115.0	3081.1	3097.7	3081.5	3079.2
20°	3068.8	3035.0	3051.5	3028.4	3028.4
22.5°	3013.4	2979.6	2998.4	2968.4	2968.4
25°	2924.6	2890.8	2904.4	2878.4	2875.6
27.5°	2819.0	2785.8	2800.0	2770.6	2770.0
30°	2742.9	2711.9	2728.5	2696.7	2693.9
32.5°	2659.8	2631.1	2643.1	2611.3	2608.5
35°	2526.6	2501.2	2509.3	2480.4	2477.5
37.5°	2386.4	2360.5	2369.7	2344.8	2343.7
40°	2287.2	2270.3	2272.8	2252.5	2246.8
42.5°	2194.9	2175.7	2178.2	2158.0	2156.8
45°	2053.6	2039.5	2039.1	2019.0	2019.0
47.5°	1903.6	1892.9	1889.7	1873.0	1872.4
50°	1799.8	1791.3	1788.2	1773.7	1770.9
52.5°	1691.3	1687.4	1677.5	1665.3	1664.8
55°	1522.9	1517.2	1502.7	1494.0	1491.1
57.5°	1340.0	1328.7	1312.3	1299.7	1301.9
60°	1208.5	1197.2	1173.9	1168.1	1168.1
62.5°	1081.6	1068.0	1044.7	1036.7	1041.2
65°	899.9	883.0	862.4	856.7	859.5
67.5°	734.9	719.7	697.4	697.4	695.1
70°	628.8	620.3	602.8	602.8	602.8
72.5°	534.2	530.2	517.4	517.4	515.1
75°	409.6	409.6	403.8	400.8	398.0
77.5°	306.9	308.0	305.2	302.2	297.1
80°	242.3	247.9	245.2	242.2	239.4
82.5°	182.3	187.9	187.5	182.3	181.7
85°	95.2	103.6	103.8	103.8	103.8
87.5°	25.7	35.7	39.3	40.0	42.3
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)