

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: P562781

Luminaire Tested: **SQ4-PC3-075U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562781
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-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

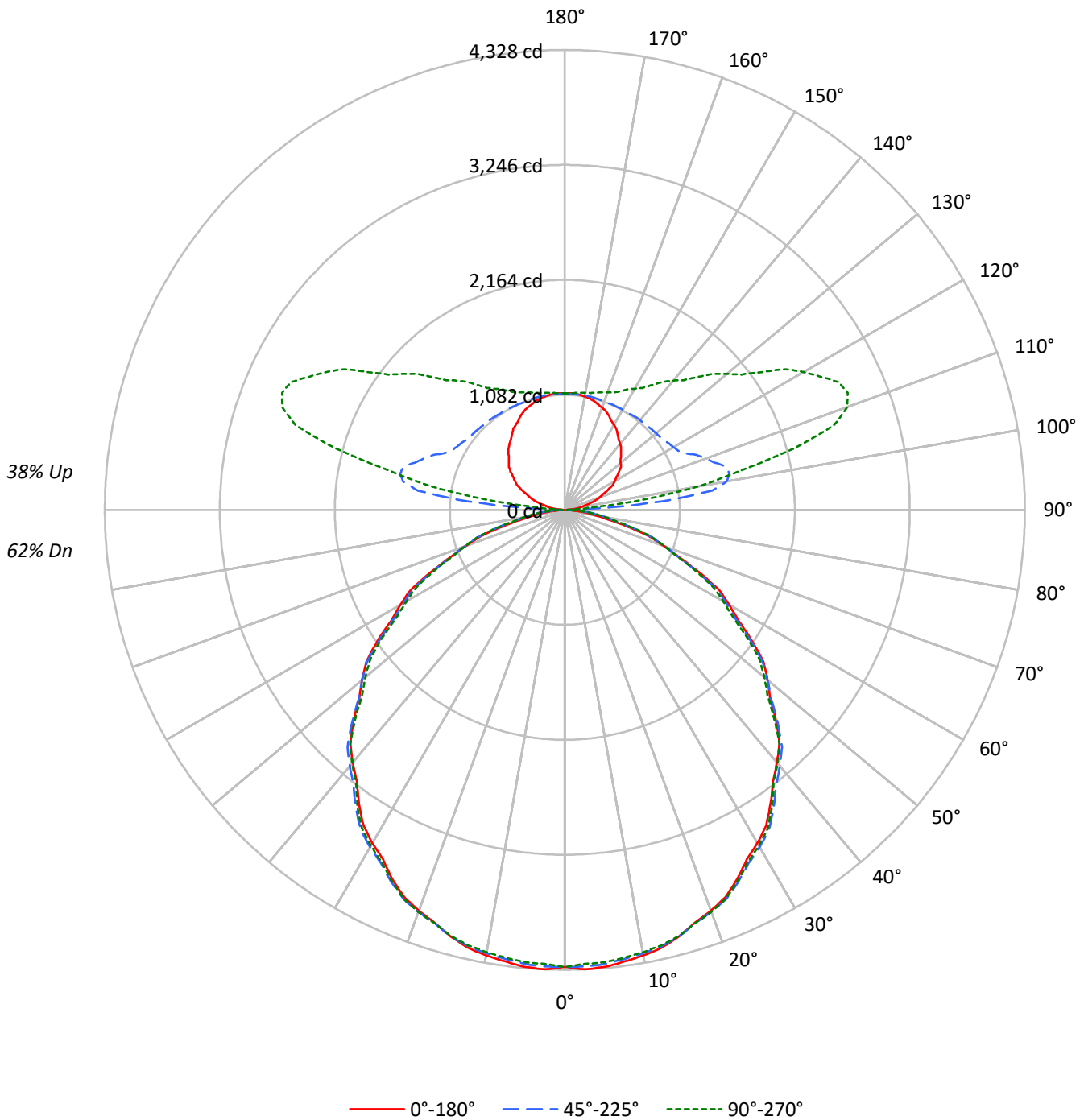
Lumens per Lamp: N/A
Luminaire Lumens: 18890.7 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 194.8
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	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°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13236	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13071
30°	12858	13014	12957
35°	12667	12861	12772
40°	12457	12633	12506
45°	12231	12318	12127
50°	11911	11911	11721
55°	11533	11384	11213
60°	10976	10756	10584
65°	10146	9943	9855
70°	8883	8954	8919
75°	7147	7904	7952
80°	5079	6702	6773
85°	3091	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	2.2
10°-20°	1168.4	6.2
20°-30°	1769.3	9.4
30°-40°	2121.2	11.2
40°-50°	2162.9	11.4
50°-60°	1888.1	10.0
60°-70°	1351.7	7.2
70°-80°	696.2	3.7
80°-90°	178.8	0.9
90°-100°	517.4	2.7
100°-110°	1423.6	7.5
110°-120°	1469.4	7.8
120°-130°	1177.3	6.2
130°-140°	924.7	4.9
140°-150°	708.6	3.8
150°-160°	509.5	2.7
160°-170°	311.5	1.6
170°-180°	105.0	0.6
0°-30°	3344.9	17.7
0°-40°	5466.1	28.9
0°-60°	9517.0	50.4
0°-90°	11743.8	62.2
90°-120°	3410.4	18.1
90°-150°	6220.9	32.9
90°-180°	7147.0	37.8
0°-180°	18890.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4302	4302	4302	4302	4302	
5°	4318	4275	4290	4278	4274	410
15°	4155	4120	4155	4154	4151	1171
25°	3836	3809	3864	3852	3852	1765
35°	3374	3366	3426	3402	3402	2110
45°	2812	2804	2832	2796	2788	2165
55°	2151	2124	2123	2091	2091	1917
65°	1394	1363	1366	1354	1354	1379
75°	602	629	665	669	669	650
85°	88	134	159	163	159	119
90°	2	9	16	21	21	9
95°	77	282	915	391	250	81
105°	254	391	1569	2389	2229	268
115°	450	549	1258	2505	2843	445
125°	621	708	1141	1931	2262	554
135°	749	831	1109	1562	1767	578
145°	866	925	1092	1330	1433	543
155°	980	1012	1085	1196	1230	450
165°	1060	1073	1090	1135	1141	299
175°	1097	1099	1092	1106	1104	104
180°	1097	1097	1097	1097	1097	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4302.0	4302.0	4302.0	4302.0	4302.0
2.5°	4327.5	4290.1	4302.0	4292.1	4276.5
5°	4317.9	4275.1	4290.1	4278.0	4274.1
7.5°	4286.9	4244.0	4263.8	4255.7	4251.8
10°	4258.2	4215.3	4238.3	4230.2	4226.3
12.5°	4219.9	4180.2	4206.4	4198.4	4197.6
15°	4154.6	4119.6	4154.6	4154.5	4150.6
17.5°	4072.6	4040.6	4078.1	4080.5	4078.1
20°	4015.2	3980.2	4027.2	4023.3	4027.2
22.5°	3945.1	3916.3	3966.6	3956.3	3960.2
25°	3836.0	3808.7	3863.8	3851.9	3851.9
27.5°	3706.9	3687.4	3747.5	3734.8	3734.8
30°	3620.9	3601.4	3664.7	3648.7	3648.7
32.5°	3525.3	3512.0	3572.3	3553.1	3553.1
35°	3373.9	3366.1	3425.7	3401.8	3401.8
37.5°	3217.7	3210.7	3264.7	3235.9	3226.5
40°	3103.0	3099.1	3146.8	3115.0	3115.0
42.5°	2988.3	2984.4	3025.7	2987.5	2987.5
45°	2812.2	2804.4	2832.2	2796.1	2788.3
47.5°	2620.2	2612.5	2629.8	2590.7	2586.8
50°	2489.6	2481.8	2489.6	2453.6	2449.8
52.5°	2355.7	2341.7	2343.0	2307.1	2306.4
55°	2151.0	2123.7	2123.1	2091.3	2091.3
57.5°	1934.3	1898.5	1901.6	1874.5	1870.6
60°	1784.5	1745.6	1748.7	1724.7	1720.8
62.5°	1637.9	1592.8	1602.1	1575.0	1574.2
65°	1394.2	1363.0	1366.3	1354.3	1354.3
67.5°	1159.9	1131.1	1152.0	1142.4	1141.6
70°	987.9	968.4	995.8	995.7	991.9
72.5°	828.5	827.8	862.0	862.0	864.4
75°	601.5	628.7	665.2	669.2	669.2
77.5°	401.5	449.8	490.0	491.5	490.7
80°	286.8	341.3	378.4	386.3	382.4
82.5°	194.4	252.0	282.8	290.7	286.8
85°	87.6	134.4	159.3	163.2	159.3
87.5°	26.0	55.4	67.0	67.8	61.6
90°	2.3	9.2	16.3	21.0	21.0
92.5°	32.2	137.7	238.6	91.6	75.2
95°	77.0	282.4	915.0	391.3	249.8
97.5°	125.6	313.2	1396.3	1075.9	759.1
100°	161.1	332.2	1547.6	1562.0	1274.5
102.5°	194.7	354.9	1586.8	1937.9	1674.1
105°	254.4	391.4	1568.6	2388.9	2229.1
107.5°	311.4	436.5	1479.4	2609.8	2657.2
110°	352.5	466.6	1412.2	2664.7	2829.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.8	500.3	1345.0	2629.3	2879.5
115°	450.5	548.6	1258.1	2505.3	2843.0
117.5°	508.4	598.8	1203.0	2331.2	2713.3
120°	543.9	630.6	1178.8	2200.8	2595.6
122.5°	575.6	662.3	1162.0	2086.4	2461.2
125°	620.9	707.6	1141.4	1930.9	2261.8
127.5°	663.8	746.5	1127.9	1801.1	2091.4
130°	686.3	770.7	1120.4	1724.0	1988.7
132.5°	712.4	796.8	1114.8	1656.2	1895.4
135°	749.3	831.4	1108.7	1561.6	1767.0
137.5°	783.8	860.0	1103.6	1485.1	1654.5
140°	810.0	880.7	1101.7	1434.3	1587.2
142.5°	832.4	897.6	1098.0	1389.0	1520.0
145°	866.0	925.3	1092.4	1330.5	1433.2
147.5°	901.9	953.1	1089.6	1278.7	1360.8
150°	924.3	970.0	1087.7	1250.2	1314.1
152.5°	944.9	986.9	1085.9	1225.7	1278.7
155°	980.4	1012.3	1085.4	1195.9	1230.1
157.5°	1006.0	1032.1	1085.4	1171.4	1195.1
160°	1024.7	1045.2	1085.4	1158.2	1176.4
162.5°	1039.6	1056.5	1087.3	1146.9	1161.5
165°	1059.7	1073.4	1090.1	1134.6	1141.4
167.5°	1073.7	1084.2	1092.4	1124.2	1126.0
170°	1083.1	1089.9	1092.4	1120.4	1120.4
172.5°	1090.5	1093.7	1092.4	1114.8	1112.9
175°	1097.1	1099.3	1092.4	1106.4	1104.1
177.5°	1098.9	1098.9	1091.5	1102.6	1098.9
180°	1097.1	1097.1	1097.1	1097.1	1097.1

(END OF REPORT)