

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: P563138

Luminaire Tested: **SQ4-PC3-150U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563138
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-100D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

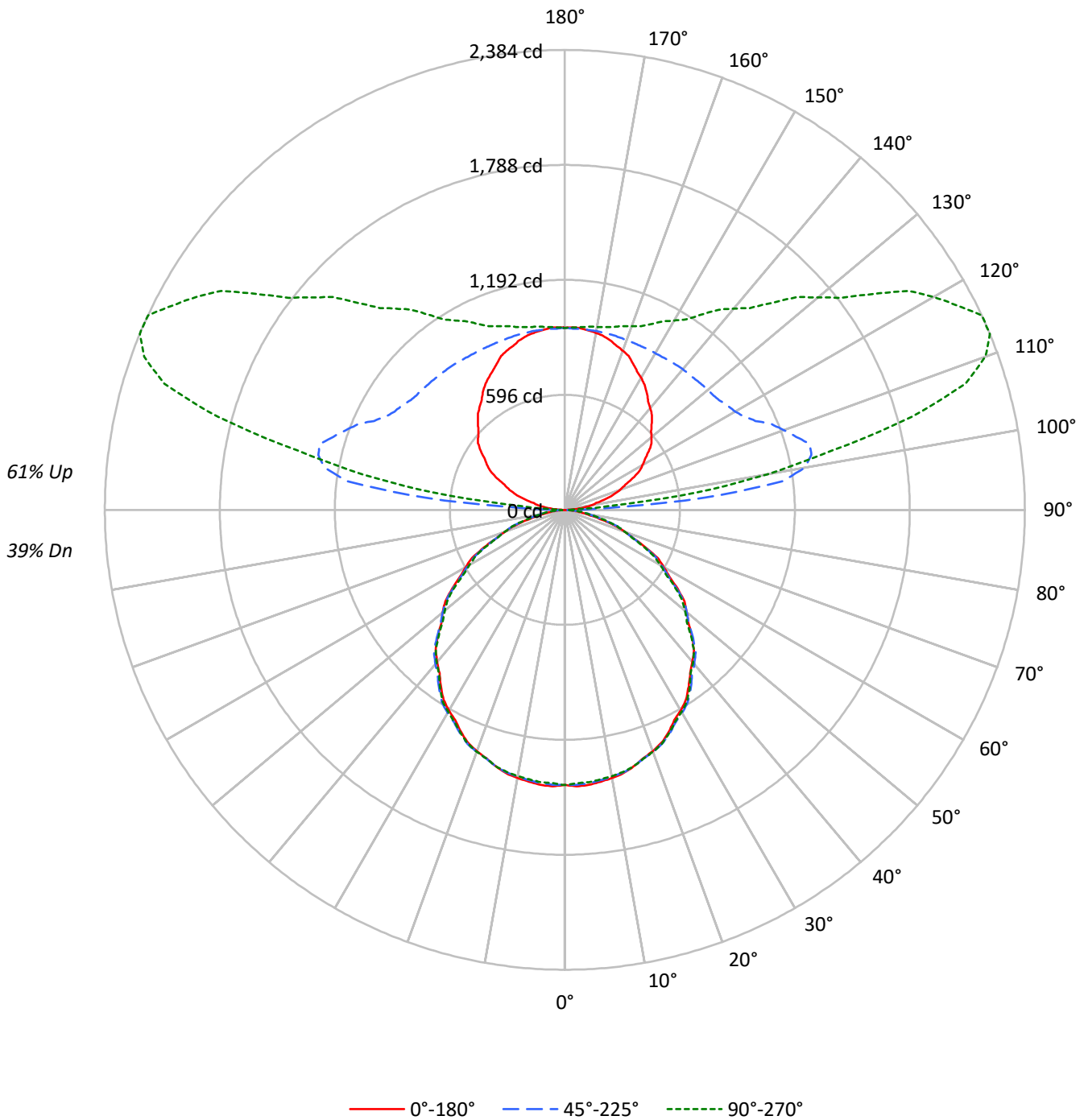
Lumens per Lamp: N/A
Luminaire Lumens: 9979.3 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.3
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13159	13159	13159
5°	13259	13173	13124
10°	13226	13165	13127
15°	13157	13157	13145
20°	13070	13109	13109
25°	12947	13042	13001
30°	12790	12944	12888
35°	12599	12793	12704
40°	12391	12565	12439
45°	12166	12252	12063
50°	11847	11847	11658
55°	11472	11323	11154
60°	10918	10699	10527
65°	10090	9889	9802
70°	8835	8907	8872
75°	7108	7864	7910
80°	5053	6668	6737
85°	3080	5589	5589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	1.4
10°-20°	387.4	3.9
20°-30°	586.6	5.9
30°-40°	703.3	7.0
40°-50°	717.1	7.2
50°-60°	626.0	6.3
60°-70°	448.2	4.5
70°-80°	230.8	2.3
80°-90°	60.4	0.6
90°-100°	438.6	4.4
100°-110°	1185.8	11.9
110°-120°	1246.8	12.5
120°-130°	1012.7	10.1
130°-140°	794.4	8.0
140°-150°	609.7	6.1
150°-160°	438.5	4.4
160°-170°	267.9	2.7
170°-180°	90.3	0.9
0°-30°	1109.0	11.1
0°-40°	1812.3	18.2
0°-60°	3155.4	31.6
0°-90°	3894.7	39.0
90°-120°	2871.2	28.8
90°-150°	5287.9	53.0
90°-180°	6085.0	61.0
0°-180°	9979.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1432	1417	1422	1418	1417	136
15°	1378	1366	1378	1377	1376	388
25°	1272	1263	1281	1277	1277	585
35°	1119	1116	1136	1128	1128	700
45°	932	930	939	927	924	718
55°	713	704	704	693	693	636
65°	462	452	453	449	449	457
75°	199	208	221	222	222	215
85°	29	45	53	54	53	40
90°	2	6	13	14	13	6
95°	68	239	729	378	224	71
105°	220	341	1316	1940	1861	232
115°	388	474	1091	2112	2384	383
125°	531	609	983	1659	1949	474
135°	637	712	957	1340	1517	492
145°	741	796	944	1147	1234	463
155°	836	869	936	1029	1063	386
165°	910	919	940	976	981	256
175°	945	944	941	953	951	90
180°	944	944	944	944	944	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1426.3	1426.3	1426.3	1426.3	1426.3
2.5°	1434.8	1422.4	1426.3	1423.1	1417.9
5°	1431.6	1417.4	1422.4	1418.4	1417.1
7.5°	1421.3	1407.1	1413.7	1411.0	1409.7
10°	1411.8	1397.6	1405.2	1402.5	1401.2
12.5°	1399.1	1386.0	1394.6	1392.0	1391.7
15°	1377.5	1365.9	1377.5	1377.4	1376.2
17.5°	1350.3	1339.7	1352.1	1352.9	1352.1
20°	1331.2	1319.6	1335.2	1333.9	1335.2
22.5°	1308.0	1298.4	1315.1	1311.7	1313.0
25°	1271.8	1262.8	1281.1	1277.1	1277.1
27.5°	1229.0	1222.6	1242.5	1238.3	1238.3
30°	1200.5	1194.0	1215.0	1209.7	1209.7
32.5°	1168.8	1164.4	1184.4	1178.0	1178.0
35°	1118.6	1116.0	1135.8	1127.9	1127.9
37.5°	1066.8	1064.5	1082.4	1072.9	1069.8
40°	1028.8	1027.5	1043.3	1032.8	1032.8
42.5°	990.8	989.5	1003.2	990.5	990.5
45°	932.4	929.8	939.0	927.1	924.5
47.5°	868.7	866.2	871.9	858.9	857.7
50°	825.4	822.8	825.4	813.5	812.2
52.5°	781.1	776.4	776.8	764.9	764.7
55°	713.2	704.1	703.9	693.4	693.4
57.5°	641.3	629.4	630.5	621.5	620.2
60°	591.7	578.8	579.8	571.8	570.5
62.5°	543.1	528.1	531.2	522.2	521.9
65°	462.2	451.9	453.0	449.0	449.0
67.5°	384.6	375.0	381.9	378.8	378.5
70°	327.5	321.1	330.2	330.1	328.9
72.5°	274.7	274.4	285.8	285.8	286.6
75°	199.4	208.5	220.6	221.9	221.9
77.5°	133.1	149.1	162.4	163.0	162.7
80°	95.1	113.2	125.5	128.1	126.8
82.5°	64.4	83.6	93.8	96.4	95.1
85°	29.1	44.6	52.8	54.1	52.8
87.5°	8.9	19.0	23.8	23.9	21.7
90°	2.0	6.0	13.2	14.2	13.2
92.5°	28.9	105.1	207.4	90.0	65.2
95°	68.1	238.9	729.4	377.5	224.5
97.5°	109.3	274.0	1136.9	940.9	691.0
100°	140.2	288.2	1263.7	1317.9	1065.6
102.5°	168.6	307.9	1308.4	1603.8	1415.1
105°	220.4	340.6	1315.5	1940.5	1861.0
107.5°	268.4	378.0	1258.0	2150.6	2177.0
110°	305.8	405.1	1206.8	2207.0	2319.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	339.1	432.1	1159.7	2195.7	2384.2
115°	388.1	474.5	1091.0	2112.1	2384.2
117.5°	436.0	517.1	1045.7	1984.3	2292.8
120°	465.3	544.7	1018.9	1892.6	2207.5
122.5°	492.9	570.8	1002.6	1794.3	2111.6
125°	531.3	608.8	983.3	1659.4	1949.4
127.5°	566.6	642.7	972.0	1549.3	1804.4
130°	586.1	664.6	967.1	1481.3	1711.7
132.5°	606.5	684.1	962.2	1419.9	1632.1
135°	636.9	712.4	956.9	1339.9	1516.7
137.5°	667.6	738.9	952.5	1274.9	1418.9
140°	688.7	755.3	950.8	1233.1	1361.2
142.5°	709.1	771.6	947.6	1195.4	1307.6
145°	740.6	796.2	943.7	1146.9	1234.3
147.5°	769.2	818.5	939.3	1102.9	1170.1
150°	790.3	834.0	937.6	1079.0	1132.7
152.5°	809.8	848.0	936.8	1056.9	1101.0
155°	836.0	868.8	935.6	1028.8	1062.6
157.5°	863.3	886.1	935.8	1009.2	1031.5
160°	878.7	897.6	936.6	996.9	1012.8
162.5°	890.9	906.6	937.4	987.1	999.0
165°	910.2	919.1	939.7	976.3	981.3
167.5°	923.4	929.6	939.9	967.1	969.5
170°	931.5	934.5	940.7	963.0	963.0
172.5°	938.0	938.6	940.7	958.1	957.3
175°	944.7	943.8	940.7	952.8	950.8
177.5°	947.0	944.6	940.5	948.6	946.2
180°	943.7	943.7	943.7	943.7	943.7

(END OF REPORT)