

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: P562708

Luminaire Tested: **SQ4-PC3-075U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562708
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-050D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

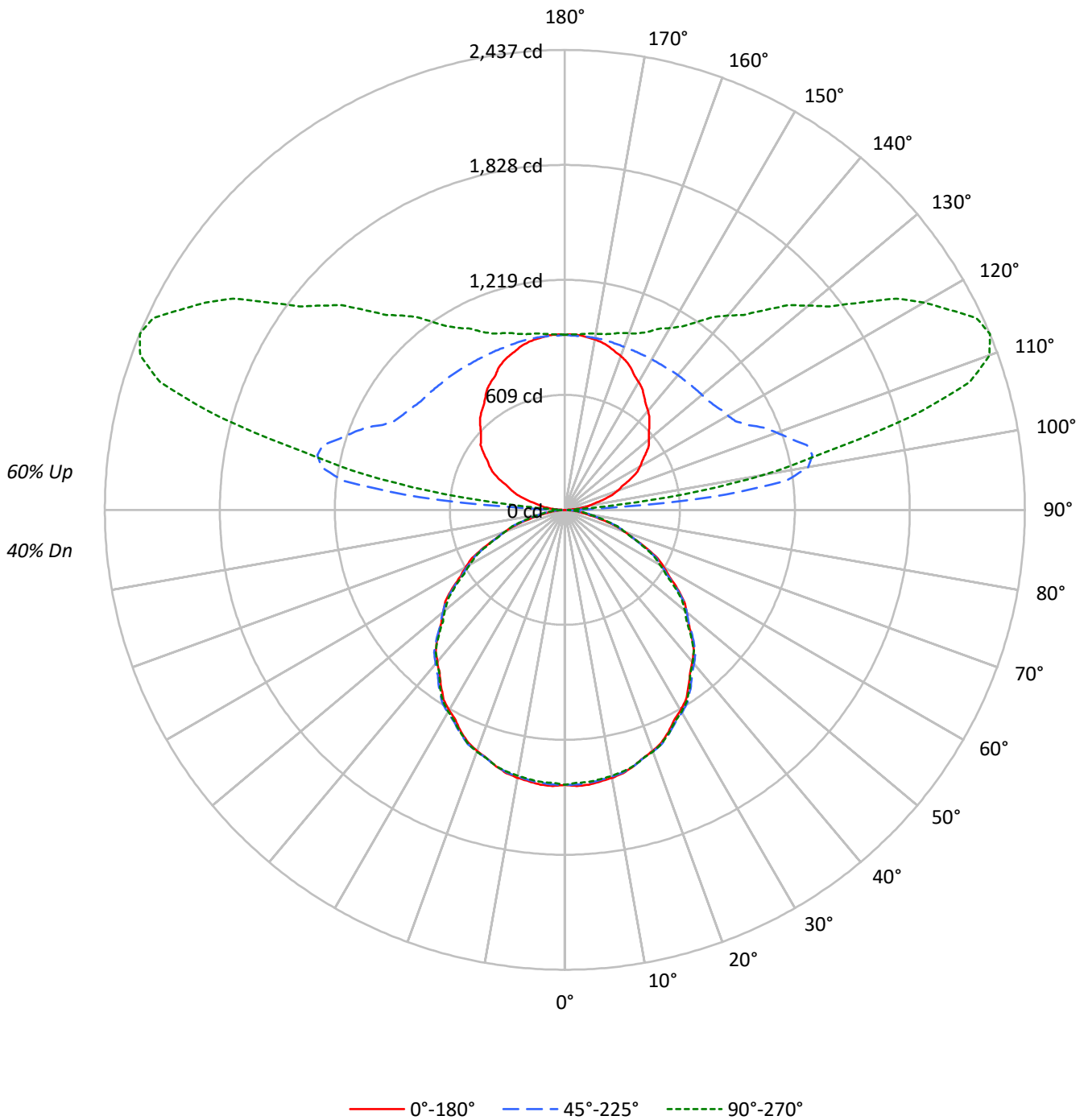
Lumens per Lamp: N/A
Luminaire Lumens: 10025.7 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14
8	52	40	33	27	47	37	30	25	31	26	22	25	21	18	20	17	15	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	25	20	26	21	17	21	17	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6720	6720	6720
5°	6771	6727	6702
10°	6754	6722	6703
15°	6719	6719	6712
20°	6674	6694	6694
25°	6611	6659	6639
30°	6531	6610	6581
35°	6433	6532	6486
40°	6327	6416	6351
45°	6212	6256	6159
50°	6050	6050	5953
55°	5857	5782	5695
60°	5574	5463	5376
65°	5153	5050	5006
70°	4512	4548	4529
75°	3631	4014	4039
80°	2580	3403	3440
85°	1572	2858	2858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	1.4
10°-20°	395.6	3.9
20°-30°	599.1	6.0
30°-40°	718.3	7.2
40°-50°	732.4	7.3
50°-60°	639.3	6.4
60°-70°	457.7	4.6
70°-80°	235.7	2.4
80°-90°	62.0	0.6
90°-100°	437.9	4.4
100°-110°	1204.6	12.0
110°-120°	1243.4	12.4
120°-130°	996.2	9.9
130°-140°	782.5	7.8
140°-150°	599.6	6.0
150°-160°	431.1	4.3
160°-170°	263.6	2.6
170°-180°	88.9	0.9
0°-30°	1132.6	11.3
0°-40°	1850.8	18.5
0°-60°	3222.5	32.1
0°-90°	3977.9	39.7
90°-120°	2885.9	28.8
90°-150°	5264.2	52.5
90°-180°	6048.0	60.3
0°-180°	10025.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1462	1448	1453	1448	1447	139
15°	1407	1395	1407	1407	1405	397
25°	1299	1290	1308	1304	1304	598
35°	1142	1140	1160	1152	1152	714
45°	952	950	959	947	944	733
55°	728	719	719	708	708	649
65°	472	462	463	459	459	467
75°	204	213	225	227	227	220
85°	30	46	54	55	54	40
90°	2	8	14	18	18	6
95°	65	239	774	331	211	69
105°	215	331	1327	2022	1886	227
115°	381	464	1065	2120	2406	376
125°	525	599	966	1634	1914	469
135°	634	704	938	1321	1495	489
145°	733	783	924	1126	1213	460
155°	830	857	918	1012	1041	381
165°	897	908	922	960	966	253
175°	928	930	924	936	934	88
180°	928	928	928	928	928	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1456.7	1456.7	1456.7	1456.7	1456.7
2.5°	1465.3	1452.6	1456.7	1453.3	1448.0
5°	1462.1	1447.6	1452.6	1448.5	1447.2
7.5°	1451.5	1437.0	1443.7	1441.0	1439.7
10°	1441.8	1427.3	1435.1	1432.4	1431.0
12.5°	1428.9	1415.4	1424.3	1421.6	1421.3
15°	1406.8	1394.9	1406.8	1406.7	1405.4
17.5°	1379.0	1368.2	1380.9	1381.7	1380.9
20°	1359.6	1347.7	1363.6	1362.3	1363.6
22.5°	1335.8	1326.1	1343.1	1339.6	1340.9
25°	1298.9	1289.6	1308.3	1304.3	1304.3
27.5°	1255.2	1248.6	1268.9	1264.6	1264.6
30°	1226.0	1219.4	1240.9	1235.5	1235.5
32.5°	1193.7	1189.2	1209.6	1203.1	1203.1
35°	1142.4	1139.8	1159.9	1151.8	1151.8
37.5°	1089.5	1087.2	1105.5	1095.7	1092.5
40°	1050.7	1049.4	1065.5	1054.7	1054.7
42.5°	1011.8	1010.5	1024.5	1011.6	1011.6
45°	952.2	949.6	959.0	946.8	944.1
47.5°	887.2	884.6	890.5	877.2	875.9
50°	843.0	840.3	843.0	830.8	829.5
52.5°	797.7	792.9	793.3	781.2	780.9
55°	728.3	719.1	718.9	708.1	708.1
57.5°	655.0	642.8	643.9	634.7	633.4
60°	604.2	591.1	592.1	584.0	582.7
62.5°	554.6	539.3	542.5	533.3	533.0
65°	472.1	461.5	462.6	458.6	458.6
67.5°	392.8	383.0	390.1	386.8	386.6
70°	334.5	327.9	337.2	337.2	335.8
72.5°	280.5	280.3	291.9	291.9	292.7
75°	203.7	212.9	225.2	226.6	226.6
77.5°	136.0	152.3	165.9	166.4	166.2
80°	97.1	115.6	128.1	130.8	129.5
82.5°	65.8	85.3	95.8	98.4	97.1
85°	29.7	45.5	54.0	55.3	54.0
87.5°	9.0	19.7	24.3	25.1	23.0
90°	2.0	7.8	13.8	17.8	17.8
92.5°	27.3	116.5	201.9	77.5	63.6
95°	65.2	239.0	774.3	331.1	211.3
97.5°	106.3	265.0	1181.6	910.4	642.3
100°	136.3	281.1	1309.6	1321.8	1078.5
102.5°	164.7	300.3	1342.7	1639.9	1416.6
105°	215.3	331.2	1327.3	2021.5	1886.3
107.5°	263.5	369.3	1251.9	2208.4	2248.6
110°	298.3	394.8	1195.0	2254.9	2394.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.9	423.3	1138.1	2224.9	2436.6
115°	381.2	464.3	1064.6	2120.0	2405.8
117.5°	430.2	506.7	1018.0	1972.7	2296.0
120°	460.2	533.6	997.5	1862.3	2196.4
122.5°	487.1	560.5	983.3	1765.5	2082.7
125°	525.4	598.8	965.9	1633.9	1914.0
127.5°	561.7	631.7	954.4	1524.1	1769.8
130°	580.7	652.2	948.1	1458.8	1682.9
132.5°	602.8	674.3	943.4	1401.5	1603.9
135°	634.0	703.6	938.2	1321.4	1495.2
137.5°	663.3	727.8	933.9	1256.7	1400.0
140°	685.4	745.3	932.3	1213.7	1343.1
142.5°	704.4	759.6	929.1	1175.4	1286.3
145°	732.8	783.0	924.4	1125.9	1212.8
147.5°	763.2	806.5	922.0	1082.0	1151.5
150°	782.2	820.8	920.4	1058.0	1112.0
152.5°	799.6	835.1	918.9	1037.2	1082.0
155°	829.6	856.6	918.5	1012.0	1040.9
157.5°	851.3	873.3	918.5	991.2	1011.3
160°	867.1	884.5	918.5	980.1	995.5
162.5°	879.8	894.0	920.1	970.5	982.9
165°	896.7	908.3	922.4	960.1	965.9
167.5°	908.6	917.5	924.4	951.3	952.8
170°	916.5	922.3	924.4	948.1	948.1
172.5°	922.8	925.5	924.4	943.3	941.8
175°	928.3	930.3	924.4	936.2	934.3
177.5°	929.9	929.9	923.6	933.0	929.9
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)