

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: P562704

Luminaire Tested: **SQ4-PC3-075U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562704
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

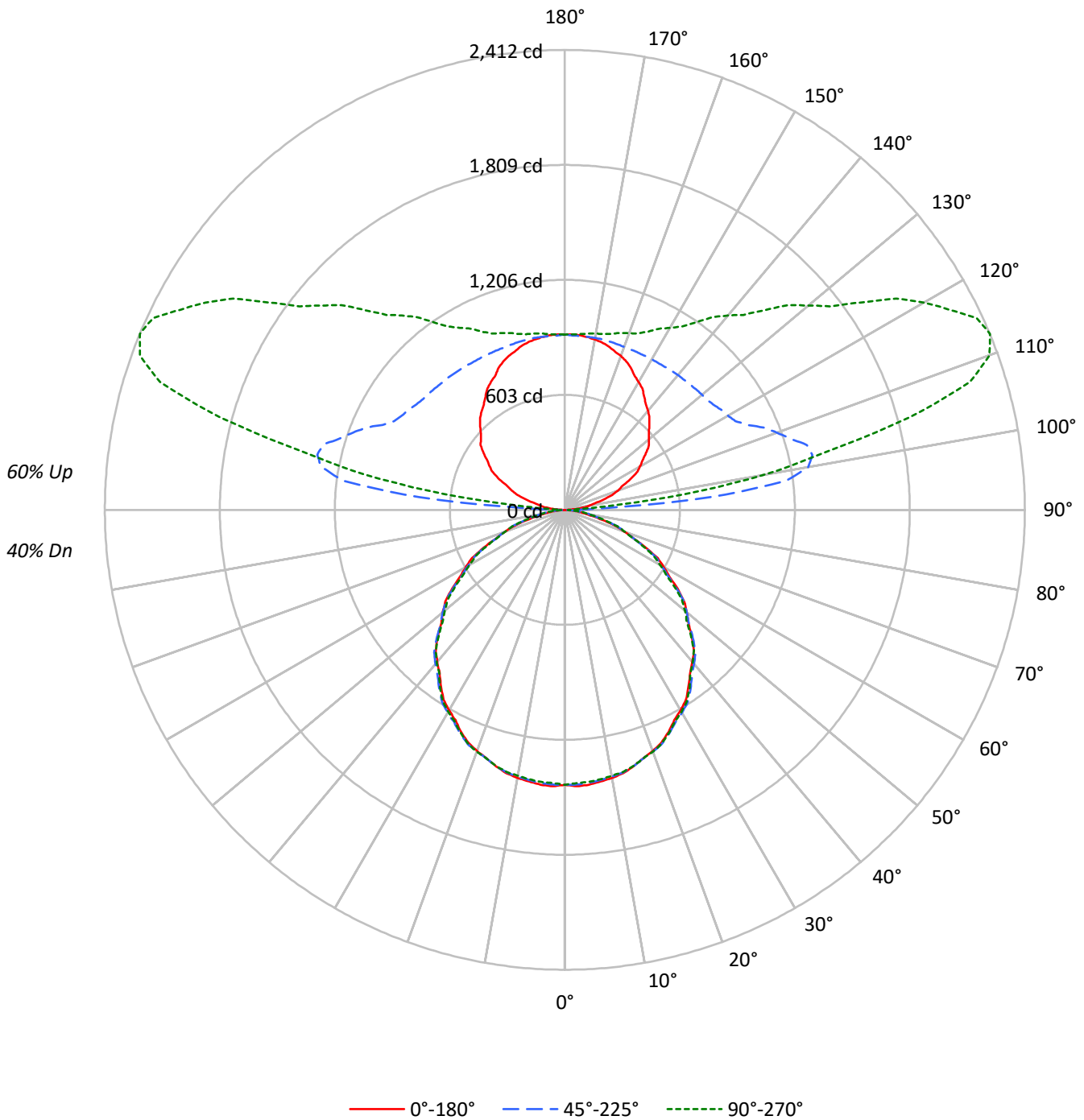
Lumens per Lamp: N/A
Luminaire Lumens: 9925.8 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6545	6593	6573
30°	6466	6544	6516
35°	6369	6467	6422
40°	6264	6353	6288
45°	6150	6194	6098
50°	5990	5990	5894
55°	5800	5724	5638
60°	5519	5408	5323
65°	5102	4999	4956
70°	4467	4502	4485
75°	3593	3975	3998
80°	2553	3371	3406
85°	1556	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.4
10°-20°	391.7	3.9
20°-30°	593.1	6.0
30°-40°	711.1	7.2
40°-50°	725.1	7.3
50°-60°	632.9	6.4
60°-70°	453.1	4.6
70°-80°	233.4	2.4
80°-90°	61.3	0.6
90°-100°	433.5	4.4
100°-110°	1192.6	12.0
110°-120°	1231.0	12.4
120°-130°	986.3	9.9
130°-140°	774.7	7.8
140°-150°	593.7	6.0
150°-160°	426.8	4.3
160°-170°	261.0	2.6
170°-180°	88.0	0.9
0°-30°	1121.3	11.3
0°-40°	1832.4	18.5
0°-60°	3190.4	32.1
0°-90°	3938.2	39.7
90°-120°	2857.1	28.8
90°-150°	5211.7	52.5
90°-180°	5988.0	60.3
0°-180°	9925.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1448	1433	1438	1434	1433	137
15°	1393	1381	1393	1393	1391	393
25°	1286	1277	1295	1291	1291	592
35°	1131	1128	1148	1140	1140	707
45°	943	940	949	937	935	726
55°	721	712	712	701	701	643
65°	467	457	458	454	454	462
75°	202	211	223	224	224	218
85°	29	45	53	55	53	40
90°	2	8	14	18	18	5
95°	64	237	767	328	209	68
105°	213	328	1314	2001	1868	225
115°	377	460	1054	2099	2382	372
125°	520	593	956	1618	1895	464
135°	628	697	929	1308	1480	484
145°	726	775	915	1115	1201	455
155°	821	848	909	1002	1031	377
165°	888	899	913	950	956	250
175°	919	921	915	927	925	87
180°	919	919	919	919	919	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1442.2	1442.2	1442.2	1442.2	1442.2
2.5°	1450.7	1438.2	1442.2	1438.8	1433.6
5°	1447.5	1433.1	1438.2	1434.1	1432.8
7.5°	1437.1	1422.7	1429.3	1426.6	1425.3
10°	1427.5	1413.1	1420.8	1418.1	1416.8
12.5°	1414.7	1401.3	1410.1	1407.4	1407.2
15°	1392.8	1381.0	1392.8	1392.7	1391.4
17.5°	1365.2	1354.5	1367.1	1367.9	1367.1
20°	1346.0	1334.3	1350.0	1348.7	1350.0
22.5°	1322.5	1312.9	1329.7	1326.3	1327.6
25°	1285.9	1276.8	1295.3	1291.3	1291.3
27.5°	1242.7	1236.1	1256.3	1252.0	1252.0
30°	1213.8	1207.3	1228.5	1223.2	1223.2
32.5°	1181.8	1177.3	1197.5	1191.1	1191.1
35°	1131.0	1128.4	1148.4	1140.4	1140.4
37.5°	1078.7	1076.3	1094.4	1084.8	1081.6
40°	1040.2	1038.9	1054.9	1044.2	1044.2
42.5°	1001.8	1000.5	1014.3	1001.5	1001.5
45°	942.7	940.1	949.4	937.3	934.7
47.5°	878.4	875.8	881.6	868.5	867.2
50°	834.6	832.0	834.6	822.5	821.2
52.5°	789.7	785.0	785.4	773.4	773.2
55°	721.1	711.9	711.7	701.0	701.0
57.5°	648.4	636.4	637.5	628.4	627.1
60°	598.2	585.2	586.2	578.2	576.9
62.5°	549.1	533.9	537.1	528.0	527.7
65°	467.4	456.9	458.0	454.0	454.0
67.5°	388.8	379.2	386.2	383.0	382.7
70°	331.2	324.6	333.8	333.8	332.5
72.5°	277.7	277.5	289.0	289.0	289.8
75°	201.6	210.8	223.0	224.3	224.3
77.5°	134.6	150.8	164.2	164.8	164.5
80°	96.1	114.4	126.9	129.5	128.2
82.5°	65.2	84.5	94.8	97.4	96.1
85°	29.4	45.0	53.4	54.7	53.4
87.5°	8.9	19.5	24.1	24.8	22.7
90°	2.0	7.7	13.7	17.6	17.6
92.5°	27.0	115.3	199.9	76.7	63.0
95°	64.5	236.6	766.6	327.8	209.2
97.5°	105.2	262.4	1169.8	901.3	635.9
100°	134.9	278.3	1296.5	1308.6	1067.7
102.5°	163.1	297.3	1329.4	1623.5	1402.5
105°	213.2	327.9	1314.1	2001.4	1867.5
107.5°	260.9	365.6	1239.4	2186.4	2226.2
110°	295.3	390.9	1183.1	2232.4	2370.1



TEST NUMBER: P562704

CATALOG NUMBER: SQ4-PC3-075U-050D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	326.6	419.1	1126.8	2202.8	2412.3
115°	377.4	459.6	1054.0	2098.8	2381.8
117.5°	425.9	501.6	1007.9	1953.0	2273.1
120°	455.6	528.3	987.5	1843.8	2174.6
122.5°	482.2	554.9	973.5	1747.9	2061.9
125°	520.2	592.8	956.3	1617.7	1894.9
127.5°	556.2	625.4	944.9	1508.9	1752.2
130°	574.9	645.7	938.7	1444.3	1666.1
132.5°	596.8	667.6	934.0	1387.5	1587.9
135°	627.7	696.6	928.9	1308.3	1480.3
137.5°	656.7	720.5	924.6	1244.2	1386.1
140°	678.6	737.8	923.0	1201.7	1329.8
142.5°	697.3	752.0	919.9	1163.7	1273.4
145°	725.5	775.2	915.2	1114.7	1200.7
147.5°	755.6	798.4	912.8	1071.2	1140.1
150°	774.4	812.6	911.3	1047.4	1101.0
152.5°	791.6	826.8	909.7	1026.9	1071.2
155°	821.3	848.1	909.3	1001.9	1030.6
157.5°	842.8	864.6	909.3	981.3	1001.2
160°	858.5	875.7	909.3	970.3	985.6
162.5°	871.0	885.1	910.9	960.8	973.1
165°	887.8	899.3	913.2	950.5	956.3
167.5°	899.5	908.3	915.2	941.8	943.3
170°	907.4	913.1	915.2	938.7	938.7
172.5°	913.6	916.3	915.2	933.9	932.4
175°	919.1	921.0	915.2	926.9	925.0
177.5°	920.7	920.7	914.4	923.7	920.7
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)