

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: P561699

Luminaire Tested: **SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561699
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-125U-100D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

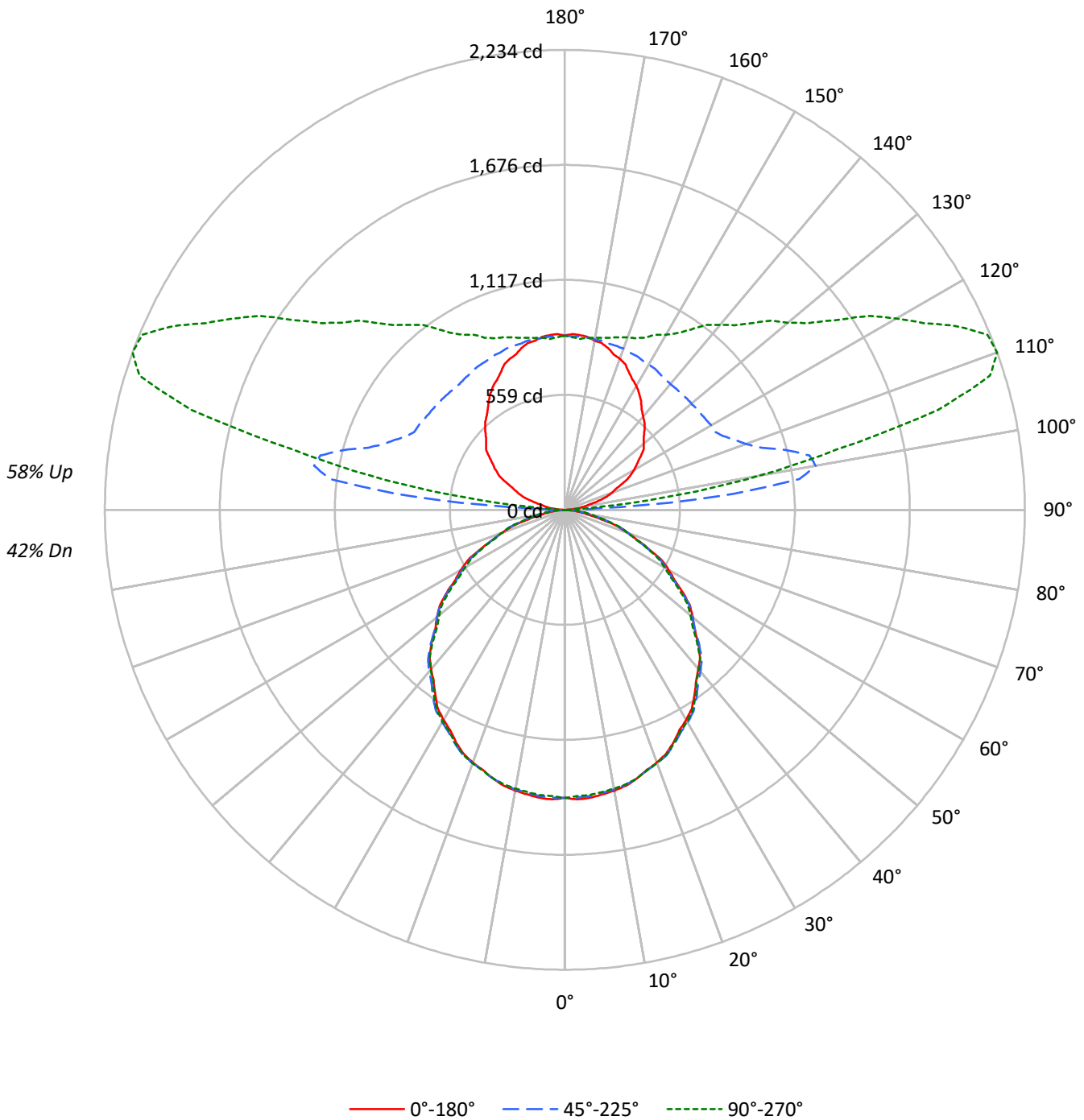
Lumens per Lamp: N/A
Luminaire Lumens: 9073.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.7
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	73	65	58	53	53	49	45	43	40	37	34	32	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12911	12911	12911
5°	13009	12924	12877
10°	12977	12916	12880
15°	12909	12909	12897
20°	12824	12862	12862
25°	12703	12795	12756
30°	12548	12700	12645
35°	12361	12552	12464
40°	12157	12329	12204
45°	11936	12021	11834
50°	11625	11625	11438
55°	11255	11109	10943
60°	10712	10496	10330
65°	9900	9702	9619
70°	8667	8737	8702
75°	6976	7714	7760
80°	4957	6540	6610
85°	3017	5483	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	1.5
10°-20°	380.1	4.2
20°-30°	575.6	6.3
30°-40°	690.0	7.6
40°-50°	703.6	7.8
50°-60°	614.2	6.8
60°-70°	439.7	4.8
70°-80°	226.5	2.5
80°-90°	57.3	0.6
90°-100°	385.4	4.2
100°-110°	1096.7	12.1
110°-120°	1050.8	11.6
120°-130°	831.6	9.2
130°-140°	667.5	7.4
140°-150°	522.6	5.8
150°-160°	382.4	4.2
160°-170°	236.8	2.6
170°-180°	80.4	0.9
0°-30°	1088.1	12.0
0°-40°	1778.1	19.6
0°-60°	3095.9	34.1
0°-90°	3819.3	42.1
90°-120°	2532.9	27.9
90°-150°	4554.7	50.2
90°-180°	5254.0	57.9
0°-180°	9073.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1405	1391	1396	1392	1390	133
15°	1352	1340	1352	1351	1350	381
25°	1248	1239	1257	1253	1253	574
35°	1098	1095	1114	1107	1107	686
45°	915	912	921	910	907	704
55°	700	691	691	680	680	624
65°	454	443	444	441	441	449
75°	196	204	216	218	218	211
85°	28	44	52	53	52	39
90°	0	0	0	0	0	3
95°	42	166	746	258	159	48
105°	170	258	1118	1974	1877	180
115°	317	383	848	1795	2108	312
125°	447	496	809	1342	1605	400
135°	547	592	799	1134	1282	422
145°	645	678	806	981	1069	403
155°	736	754	825	887	923	340
165°	814	817	835	853	865	229
175°	852	848	844	839	833	81
180°	846	846	846	846	846	



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CATALOG NUMBER: SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.4	1399.4	1399.4	1399.4	1399.4
2.5°	1407.7	1395.6	1399.4	1396.2	1391.1
5°	1404.6	1390.7	1395.5	1391.6	1390.4
7.5°	1394.5	1380.6	1387.0	1384.4	1383.1
10°	1385.2	1371.2	1378.7	1376.1	1374.8
12.5°	1372.7	1359.8	1368.3	1365.7	1365.5
15°	1351.5	1340.1	1351.5	1351.4	1350.2
17.5°	1324.8	1314.4	1326.6	1327.4	1326.6
20°	1306.1	1294.7	1310.0	1308.7	1310.0
22.5°	1283.3	1273.9	1290.3	1287.0	1288.2
25°	1247.8	1238.9	1256.9	1253.0	1253.0
27.5°	1205.8	1199.5	1219.1	1214.9	1214.9
30°	1177.8	1171.5	1192.1	1186.9	1186.9
32.5°	1146.7	1142.4	1162.0	1155.8	1155.8
35°	1097.5	1095.0	1114.4	1106.6	1106.6
37.5°	1046.7	1044.4	1062.0	1052.6	1049.6
40°	1009.4	1008.1	1023.7	1013.3	1013.3
42.5°	972.1	970.8	984.3	971.8	971.8
45°	914.8	912.3	921.3	909.6	907.0
47.5°	852.4	849.8	855.5	842.7	841.5
50°	809.9	807.3	809.9	798.2	796.9
52.5°	766.3	761.8	762.2	750.5	750.2
55°	699.7	690.8	690.6	680.3	680.3
57.5°	629.2	617.6	618.6	609.8	608.5
60°	580.5	567.8	568.8	561.0	559.8
62.5°	532.8	518.1	521.2	512.3	512.1
65°	453.5	443.4	444.4	440.6	440.6
67.5°	377.3	367.9	374.7	371.6	371.4
70°	321.3	315.0	323.9	323.9	322.6
72.5°	269.5	269.3	280.4	280.4	281.2
75°	195.7	204.5	216.4	217.7	217.7
77.5°	130.6	146.3	159.4	159.9	159.6
80°	93.3	111.0	123.1	125.7	124.4
82.5°	63.2	82.0	92.0	94.6	93.3
85°	28.5	43.7	51.8	53.1	51.8
87.5°	8.3	17.4	20.7	20.7	18.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	12.9	68.2	158.2	46.1	34.7
95°	41.8	166.0	746.2	258.3	159.2
97.5°	76.9	194.5	1149.2	822.3	563.5
100°	101.3	211.4	1236.6	1252.6	964.9
102.5°	128.3	229.6	1217.3	1603.4	1352.1
105°	170.5	258.5	1117.6	1974.1	1876.7
107.5°	213.2	292.2	1001.2	2078.7	2165.5
110°	242.8	316.7	934.3	2038.7	2233.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.1	341.3	889.3	1944.1	2222.1
115°	316.8	382.8	847.5	1795.3	2108.2
117.5°	357.0	419.0	822.7	1632.7	1964.1
120°	389.2	441.0	820.1	1539.7	1857.4
122.5°	414.9	466.8	813.7	1458.2	1753.2
125°	447.1	495.8	808.9	1342.3	1604.9
127.5°	482.1	527.7	806.3	1273.1	1489.4
130°	500.1	545.7	802.4	1224.8	1413.5
132.5°	519.4	563.8	802.4	1187.2	1360.8
135°	546.8	592.4	799.2	1133.9	1281.7
137.5°	572.5	616.8	798.9	1088.7	1216.4
140°	591.8	637.4	797.6	1051.3	1173.9
142.5°	613.7	651.7	801.5	1021.4	1131.5
145°	644.8	677.9	805.7	981.3	1069.4
147.5°	671.5	703.6	812.7	940.9	1017.0
150°	694.7	716.7	815.3	927.5	980.9
152.5°	712.7	736.0	817.9	909.4	959.1
155°	736.5	753.8	825.0	886.9	923.1
157.5°	766.1	776.5	826.6	876.7	902.5
160°	781.5	789.4	833.0	868.9	890.9
162.5°	790.5	799.7	834.3	862.3	879.3
165°	813.7	816.8	834.6	852.6	865.2
167.5°	829.5	826.6	842.0	850.2	855.2
170°	834.6	833.0	839.4	841.2	847.5
172.5°	846.2	840.8	843.3	838.6	843.6
175°	852.3	847.6	844.3	839.3	833.0
177.5°	854.9	847.3	843.3	838.2	839.4
180°	845.9	845.9	845.9	845.9	845.9

(END OF REPORT)