

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: P563031

Luminaire Tested: **SQ4-PC3-125U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563031
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

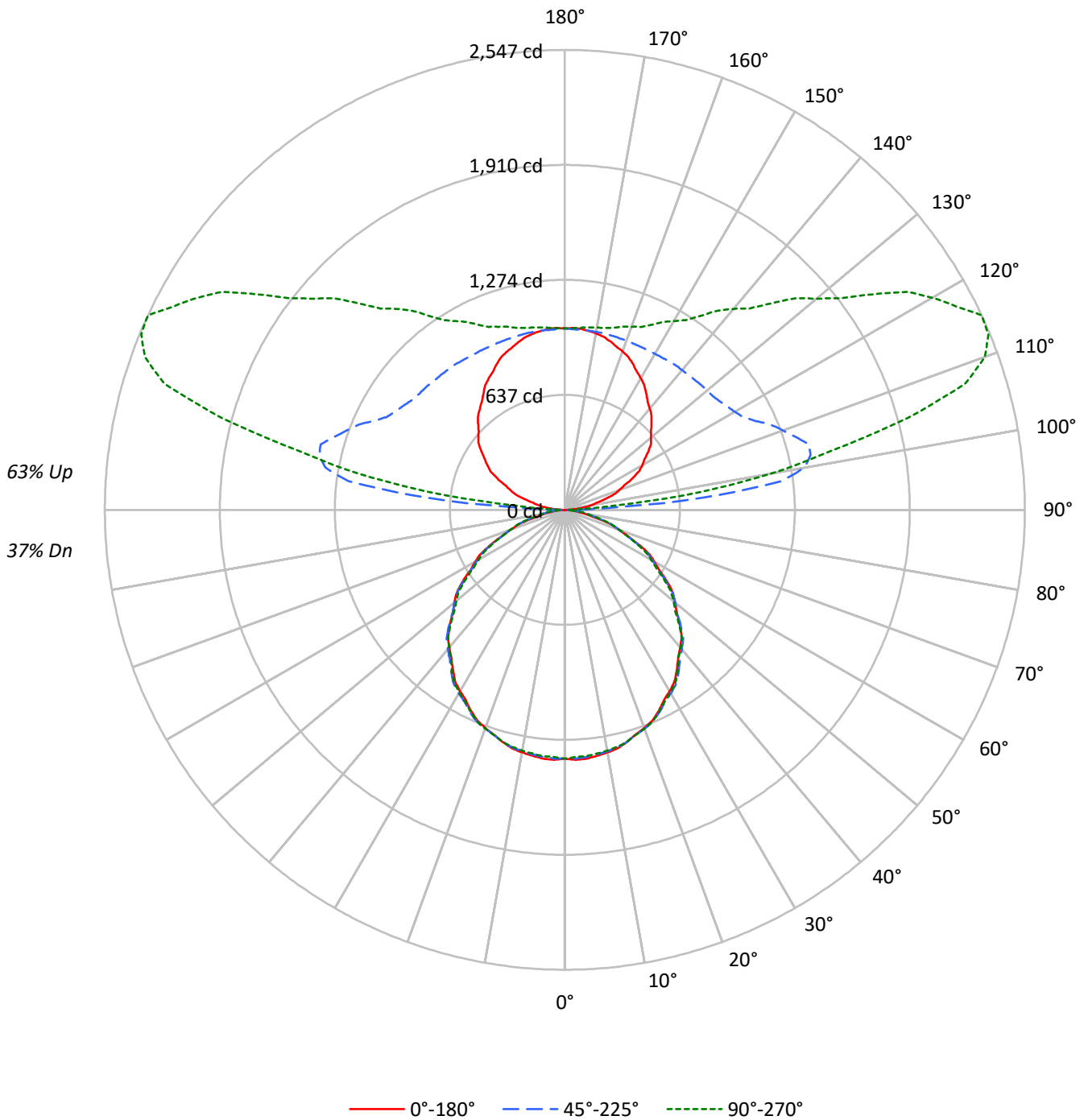
Lumens per Lamp: N/A
Luminaire Lumens: 10246.3 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37				37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37				31	
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31				26	
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27				22	
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23				19	
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20				16	
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17				14	
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15				13	
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14				11	
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12				10	
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11				9	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8476	8476	8476
5°	8540	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8420	8444	8444
25°	8339	8401	8374
30°	8238	8338	8302
35°	8115	8240	8183
40°	7981	8094	8012
45°	7837	7892	7770
50°	7631	7631	7510
55°	7390	7293	7184
60°	7033	6891	6782
65°	6500	6370	6315
70°	5692	5737	5713
75°	4579	5064	5095
80°	3255	4293	4339
85°	1983	3599	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	1.3
10°-20°	374.3	3.7
20°-30°	566.8	5.5
30°-40°	679.5	6.6
40°-50°	692.9	6.8
50°-60°	604.8	5.9
60°-70°	433.0	4.2
70°-80°	223.0	2.2
80°-90°	58.7	0.6
90°-100°	469.8	4.6
100°-110°	1265.4	12.4
110°-120°	1328.0	13.0
120°-130°	1077.7	10.5
130°-140°	845.2	8.2
140°-150°	648.9	6.3
150°-160°	466.6	4.6
160°-170°	285.0	2.8
170°-180°	96.1	0.9
0°-30°	1071.5	10.5
0°-40°	1751.0	17.1
0°-60°	3048.8	29.8
0°-90°	3763.6	36.7
90°-120°	3063.3	29.9
90°-150°	5635.0	55.0
90°-180°	6483.0	63.3
0°-180°	10246.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1383	1370	1374	1370	1369	131
15°	1331	1320	1331	1331	1330	375
25°	1229	1220	1238	1234	1234	566
35°	1081	1078	1097	1090	1090	676
45°	901	898	907	896	893	693
55°	689	680	680	670	670	614
65°	447	437	438	434	434	442
75°	193	201	213	214	214	208
85°	28	43	51	52	51	38
90°	3	8	15	17	17	6
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	

TEST NUMBER: P563031

CATALOG NUMBER: SQ4-PC3-125U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.1	1378.1	1378.1	1378.1	1378.1
2.5°	1386.3	1374.3	1378.1	1375.0	1370.0
5°	1383.2	1369.5	1374.3	1370.5	1369.2
7.5°	1373.3	1359.6	1365.9	1363.3	1362.1
10°	1364.1	1350.4	1357.7	1355.1	1353.9
12.5°	1351.9	1339.1	1347.5	1345.0	1344.7
15°	1330.9	1319.7	1330.9	1330.9	1329.6
17.5°	1304.6	1294.4	1306.4	1307.2	1306.4
20°	1286.3	1275.0	1290.1	1288.8	1290.1
22.5°	1263.8	1254.6	1270.7	1267.4	1268.7
25°	1228.8	1220.1	1237.8	1233.9	1233.9
27.5°	1187.5	1181.3	1200.5	1196.4	1196.4
30°	1159.9	1153.7	1174.0	1168.9	1168.9
32.5°	1129.3	1125.1	1144.4	1138.2	1138.2
35°	1080.8	1078.3	1097.4	1089.8	1089.8
37.5°	1030.8	1028.6	1045.9	1036.6	1033.6
40°	994.0	992.8	1008.1	997.9	997.9
42.5°	957.3	956.0	969.3	957.0	957.0
45°	900.9	898.4	907.3	895.7	893.2
47.5°	839.4	836.9	842.5	829.9	828.7
50°	797.5	795.0	797.5	786.0	784.8
52.5°	754.7	750.2	750.6	739.1	738.8
55°	689.1	680.3	680.1	669.9	669.9
57.5°	619.7	608.2	609.2	600.5	599.2
60°	571.7	559.2	560.2	552.5	551.3
62.5°	524.7	510.2	513.2	504.5	504.3
65°	446.6	436.6	437.7	433.9	433.9
67.5°	371.6	362.4	369.0	366.0	365.7
70°	316.5	310.2	319.0	319.0	317.7
72.5°	265.4	265.2	276.1	276.2	276.9
75°	192.7	201.4	213.1	214.4	214.4
77.5°	128.6	144.1	157.0	157.5	157.2
80°	91.9	109.3	121.2	123.7	122.5
82.5°	62.3	80.7	90.6	93.1	91.9
85°	28.1	43.0	51.0	52.3	51.0
87.5°	8.7	18.7	23.5	23.7	21.7
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1



TEST NUMBER: P563031

CATALOG NUMBER: SQ4-PC3-125U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)