

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: P563027

Luminaire Tested: **SQ4-PC3-125U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563027
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

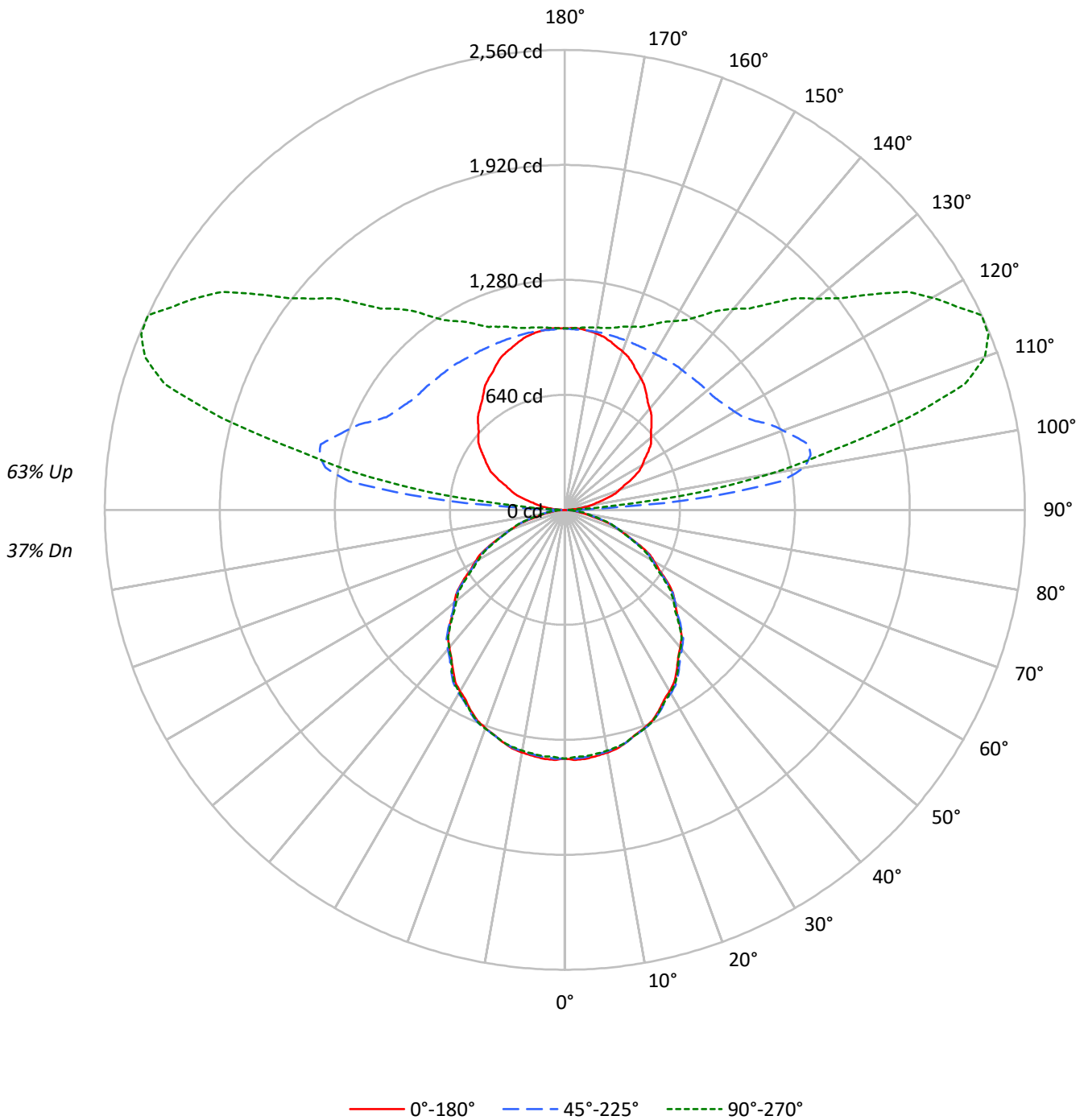
Lumens per Lamp: N/A
Luminaire Lumens: 10298.6 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	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°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8488	8488
25°	8382	8443	8417
30°	8281	8381	8344
35°	8157	8282	8224
40°	8022	8135	8053
45°	7877	7932	7810
50°	7670	7670	7548
55°	7427	7331	7220
60°	7069	6926	6816
65°	6533	6402	6347
70°	5721	5766	5744
75°	4603	5090	5121
80°	3269	4314	4360
85°	1990	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	1.3
10°-20°	376.2	3.7
20°-30°	569.7	5.5
30°-40°	683.0	6.6
40°-50°	696.4	6.8
50°-60°	607.9	5.9
60°-70°	435.2	4.2
70°-80°	224.2	2.2
80°-90°	59.1	0.6
90°-100°	472.2	4.6
100°-110°	1271.9	12.4
110°-120°	1334.8	13.0
120°-130°	1083.2	10.5
130°-140°	849.5	8.2
140°-150°	652.2	6.3
150°-160°	468.9	4.6
160°-170°	286.5	2.8
170°-180°	96.6	0.9
0°-30°	1077.0	10.5
0°-40°	1760.0	17.1
0°-60°	3064.3	29.8
0°-90°	3782.8	36.7
90°-120°	3078.9	29.9
90°-150°	5663.8	55.0
90°-180°	6516.0	63.3
0°-180°	10298.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1390	1376	1381	1377	1376	132
15°	1338	1326	1338	1338	1336	377
25°	1235	1226	1244	1240	1240	568
35°	1086	1084	1103	1095	1095	679
45°	906	903	912	900	898	697
55°	693	684	684	673	673	617
65°	449	439	440	436	436	444
75°	194	202	214	216	216	209
85°	28	43	51	53	51	38
90°	3	8	15	17	17	6
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.2	1385.2	1385.2	1385.2	1385.2
2.5°	1393.4	1381.3	1385.2	1382.0	1377.0
5°	1390.3	1376.5	1381.3	1377.4	1376.2
7.5°	1380.3	1366.5	1372.9	1370.3	1369.0
10°	1371.1	1357.3	1364.7	1362.1	1360.8
12.5°	1358.8	1346.0	1354.4	1351.8	1351.6
15°	1337.7	1326.4	1337.7	1337.7	1336.4
17.5°	1311.3	1301.0	1313.1	1313.8	1313.1
20°	1292.8	1281.5	1296.7	1295.4	1296.7
22.5°	1270.3	1261.0	1277.2	1273.9	1275.1
25°	1235.1	1226.3	1244.1	1240.2	1240.2
27.5°	1193.6	1187.3	1206.6	1202.5	1202.5
30°	1165.9	1159.6	1180.0	1174.8	1174.8
32.5°	1135.1	1130.8	1150.2	1144.0	1144.0
35°	1086.3	1083.8	1103.0	1095.3	1095.3
37.5°	1036.1	1033.8	1051.2	1041.9	1038.9
40°	999.1	997.9	1013.2	1003.0	1003.0
42.5°	962.2	960.9	974.2	961.9	961.9
45°	905.5	903.0	911.9	900.3	897.8
47.5°	843.7	841.2	846.8	834.2	832.9
50°	801.6	799.1	801.6	790.0	788.8
52.5°	758.5	754.0	754.4	742.9	742.6
55°	692.6	683.8	683.6	673.3	673.3
57.5°	622.8	611.3	612.3	603.5	602.3
60°	574.6	562.0	563.0	555.3	554.1
62.5°	527.4	512.8	515.8	507.1	506.9
65°	448.9	438.9	439.9	436.1	436.1
67.5°	373.5	364.2	370.9	367.8	367.6
70°	318.1	311.8	320.6	320.6	319.4
72.5°	266.8	266.5	277.5	277.6	278.3
75°	193.7	202.4	214.2	215.5	215.5
77.5°	129.3	144.8	157.8	158.3	158.0
80°	92.3	109.9	121.8	124.4	123.1
82.5°	62.6	81.1	91.1	93.6	92.3
85°	28.2	43.3	51.3	52.6	51.3
87.5°	8.7	18.8	23.6	23.8	21.8
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)