

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: P563015

Luminaire Tested: **SQ4-PC3-125U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563015
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-835-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

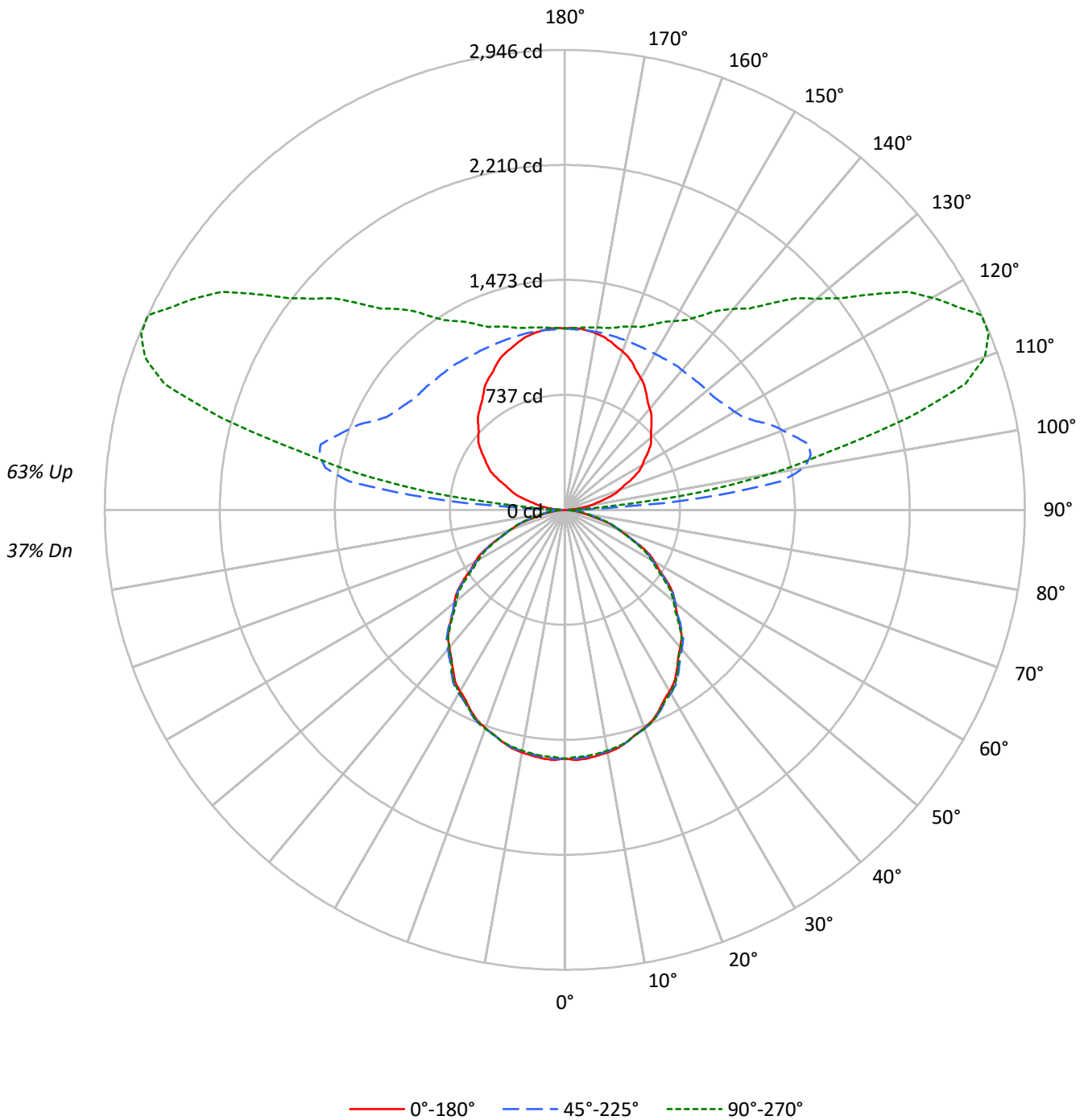
Lumens per Lamp: N/A
Luminaire Lumens: 11852.5 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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°	9806	9806	9806
5°	9879	9816	9779
10°	9855	9809	9781
15°	9804	9804	9794
20°	9739	9768	9768
25°	9647	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9065	9129	8988
50°	8828	8828	8687
55°	8548	8437	8310
60°	8135	7971	7845
65°	7519	7369	7305
70°	6584	6636	6609
75°	5297	5858	5894
80°	3765	4966	5019
85°	2294	4164	4164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	1.3
10°-20°	433.0	3.7
20°-30°	655.7	5.5
30°-40°	786.1	6.6
40°-50°	801.5	6.8
50°-60°	699.7	5.9
60°-70°	500.9	4.2
70°-80°	258.0	2.2
80°-90°	68.0	0.6
90°-100°	543.4	4.6
100°-110°	1463.8	12.4
110°-120°	1536.2	13.0
120°-130°	1246.6	10.5
130°-140°	977.7	8.2
140°-150°	750.6	6.3
150°-160°	539.7	4.6
160°-170°	329.7	2.8
170°-180°	111.2	0.9
0°-30°	1239.5	10.5
0°-40°	2025.5	17.1
0°-60°	3526.7	29.8
0°-90°	4353.5	36.7
90°-120°	3543.5	29.9
90°-150°	6518.4	55.0
90°-180°	7499.0	63.3
0°-180°	11852.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1600	1584	1590	1585	1584	152
15°	1540	1527	1540	1540	1538	434
25°	1422	1411	1432	1427	1427	654
35°	1250	1247	1269	1261	1261	782
45°	1042	1039	1050	1036	1033	802
55°	797	787	787	775	775	711
65°	517	505	506	502	502	511
75°	223	233	246	248	248	241
85°	32	50	59	60	59	44
90°	3	9	18	19	19	7
95°	83	296	891	456	315	87
105°	271	421	1619	2422	2273	285
115°	478	585	1348	2605	2946	470
125°	653	750	1210	2046	2408	583
135°	786	877	1176	1650	1869	607
145°	909	980	1162	1411	1515	570
155°	1031	1069	1151	1266	1307	475
165°	1119	1132	1156	1202	1208	315
175°	1163	1162	1157	1173	1170	110
180°	1162	1162	1162	1162	1162	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1594.2	1594.2	1594.2	1594.2	1594.2
2.5°	1603.6	1589.8	1594.2	1590.5	1584.7
5°	1600.1	1584.2	1589.8	1585.3	1583.8
7.5°	1588.6	1572.7	1580.0	1577.0	1575.6
10°	1577.9	1562.1	1570.6	1567.6	1566.1
12.5°	1563.8	1549.1	1558.8	1555.8	1555.5
15°	1539.6	1526.6	1539.6	1539.5	1538.1
17.5°	1509.2	1497.3	1511.2	1512.1	1511.2
20°	1487.9	1474.9	1492.3	1490.9	1492.3
22.5°	1461.9	1451.2	1469.9	1466.1	1467.5
25°	1421.5	1411.4	1431.8	1427.4	1427.4
27.5°	1373.7	1366.4	1388.7	1384.0	1384.0
30°	1341.8	1334.6	1358.0	1352.1	1352.1
32.5°	1306.3	1301.4	1323.8	1316.7	1316.7
35°	1250.3	1247.4	1269.4	1260.6	1260.6
37.5°	1192.4	1189.8	1209.8	1199.1	1195.6
40°	1149.9	1148.4	1166.1	1154.3	1154.3
42.5°	1107.4	1105.9	1121.2	1107.1	1107.1
45°	1042.1	1039.2	1049.5	1036.2	1033.3
47.5°	971.0	968.1	974.5	960.0	958.6
50°	922.6	919.7	922.6	909.2	907.8
52.5°	873.0	867.8	868.2	854.9	854.7
55°	797.1	787.0	786.8	774.9	774.9
57.5°	716.8	703.5	704.7	694.6	693.2
60°	661.3	646.9	648.0	639.1	637.7
62.5°	607.0	590.2	593.7	583.6	583.4
65°	516.6	505.1	506.3	501.9	501.9
67.5°	429.8	419.2	426.9	423.3	423.0
70°	366.1	358.9	369.0	369.0	367.5
72.5°	307.0	306.7	319.4	319.4	320.3
75°	222.9	233.0	246.5	248.0	248.0
77.5°	148.8	166.7	181.6	182.1	181.9
80°	106.3	126.5	140.2	143.1	141.7
82.5°	72.0	93.4	104.8	107.7	106.3
85°	32.5	49.8	59.0	60.5	59.0
87.5°	10.0	21.6	27.2	27.4	25.1
90°	3.0	8.7	17.8	19.2	19.2
92.5°	36.1	127.6	252.2	121.4	84.3
95°	82.9	295.6	890.8	455.5	315.2
97.5°	132.3	338.3	1397.2	1167.2	880.2
100°	170.2	355.4	1558.2	1630.3	1352.5
102.5°	206.9	379.3	1611.5	1977.1	1749.1
105°	270.8	421.3	1618.9	2422.0	2272.9
107.5°	331.2	465.4	1549.9	2650.6	2689.1
110°	371.4	498.8	1487.2	2721.5	2861.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	414.0	532.1	1426.8	2705.8	2936.5
115°	478.0	585.0	1348.1	2604.8	2946.2
117.5°	536.3	636.7	1287.1	2443.5	2823.7
120°	574.2	671.1	1256.3	2327.7	2718.4
122.5°	607.3	703.1	1233.8	2209.3	2598.8
125°	652.6	749.5	1210.5	2045.9	2407.6
127.5°	696.1	791.6	1195.7	1901.8	2224.7
130°	722.1	817.6	1189.7	1819.2	2102.8
132.5°	748.2	842.5	1183.8	1746.4	2006.9
135°	785.8	876.9	1176.4	1650.5	1869.0
137.5°	821.6	909.0	1172.6	1569.1	1748.5
140°	846.4	930.4	1169.0	1519.0	1681.0
142.5°	872.5	950.6	1166.7	1472.2	1608.8
145°	908.6	979.5	1161.6	1411.1	1515.3
147.5°	947.7	1009.3	1156.6	1359.7	1441.6
150°	973.7	1027.2	1154.2	1327.4	1395.4
152.5°	997.4	1044.0	1153.0	1301.1	1356.4
155°	1031.4	1069.0	1151.3	1266.1	1306.6
157.5°	1061.3	1090.5	1151.6	1241.6	1268.8
160°	1080.2	1104.8	1152.7	1227.2	1247.5
162.5°	1096.8	1116.8	1153.9	1215.2	1229.7
165°	1118.7	1131.7	1155.7	1201.7	1207.5
167.5°	1136.5	1144.0	1157.2	1191.3	1193.6
170°	1148.3	1151.2	1157.2	1185.3	1185.3
172.5°	1155.4	1156.0	1158.4	1179.4	1179.4
175°	1163.1	1161.7	1157.2	1173.4	1170.5
177.5°	1166.4	1164.0	1158.1	1167.5	1165.2
180°	1161.6	1161.6	1161.6	1161.6	1161.6

(END OF REPORT)