

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: P563154

Luminaire Tested: **SQ4-PC3-150U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563154  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-125D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

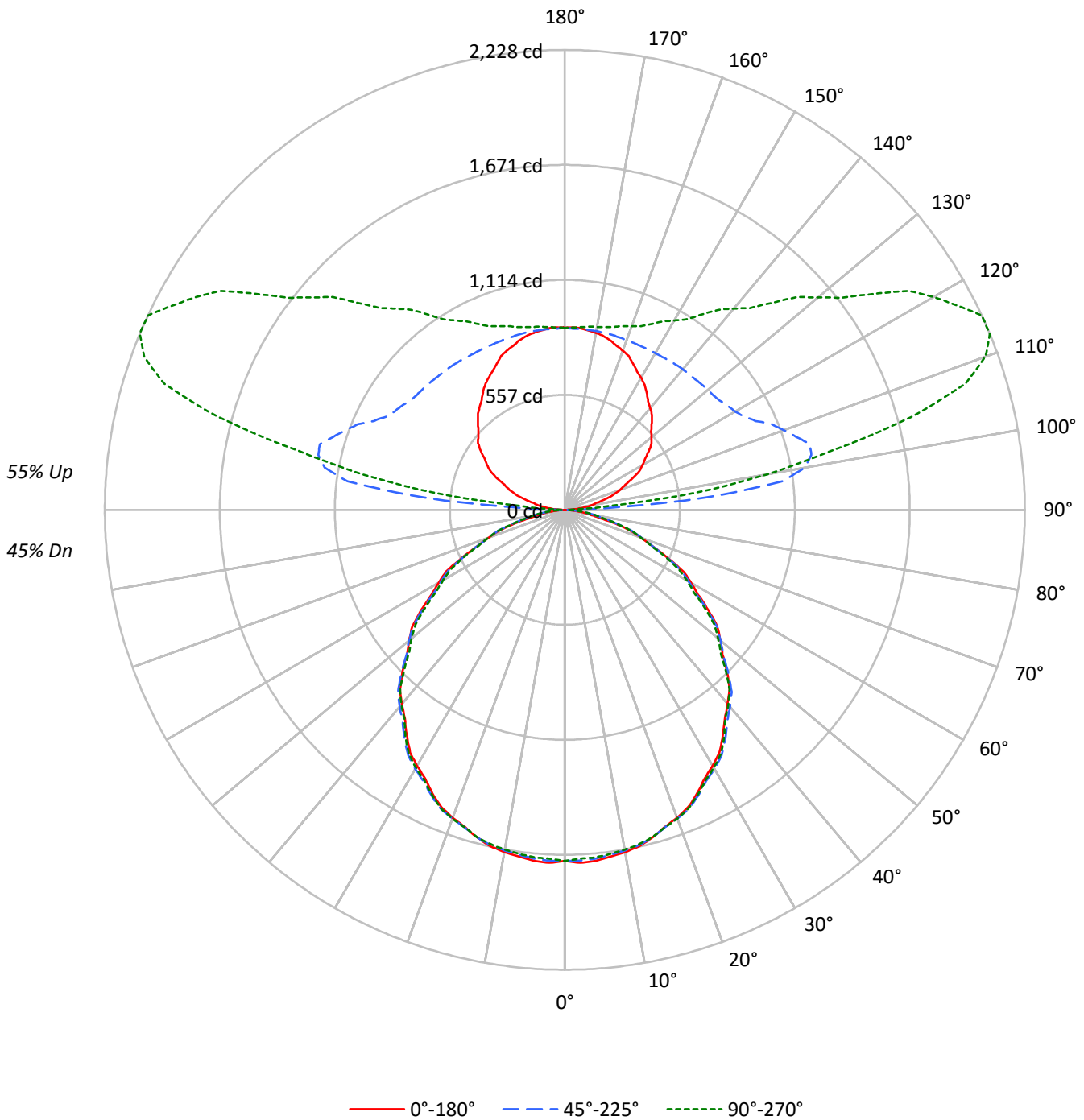
Lumens per Lamp: N/A  
Luminaire Lumens: 10330.0 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 83.1  
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



TEST NUMBER: P563154  
CATALOG NUMBER: SQ4-PC3-150U-125D-830-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P563154

CATALOG NUMBER: SQ4-PC3-150U-125D-830-1D-UNV-STD-W-4

**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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15694	15694	15694
5°	15812	15709	15651
10°	15773	15700	15655
15°	15691	15691	15675
20°	15588	15634	15634
25°	15440	15552	15504
30°	15252	15437	15370
35°	15025	15256	15149
40°	14777	14985	14833
45°	14508	14611	14385
50°	14128	14128	13903
55°	13681	13504	13301
60°	13020	12758	12555
65°	12033	11793	11691
70°	10537	10620	10580
75°	8477	9375	9432
80°	6025	7948	8033
85°	3663	6669	6669



TEST NUMBER: P563154

CATALOG NUMBER: SQ4-PC3-150U-125D-830-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.0	1.6
10°-20°	462.0	4.5
20°-30°	699.6	6.8
30°-40°	838.7	8.1
40°-50°	855.2	8.3
50°-60°	746.5	7.2
60°-70°	534.4	5.2
70°-80°	275.3	2.7
80°-90°	71.4	0.7
90°-100°	409.8	4.0
100°-110°	1108.2	10.7
110°-120°	1165.1	11.3
120°-130°	946.4	9.2
130°-140°	742.3	7.2
140°-150°	569.7	5.5
150°-160°	409.7	4.0
160°-170°	250.3	2.4
170°-180°	84.4	0.8
0°-30°	1322.5	12.8
0°-40°	2161.2	20.9
0°-60°	3762.9	36.4
0°-90°	4644.0	45.0
90°-120°	2683.1	26.0
90°-150°	4941.5	47.8
90°-180°	5686.0	55.0
0°-180°	10330.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1707	1690	1696	1692	1690	162
15°	1643	1629	1643	1643	1641	463
25°	1517	1506	1528	1523	1523	698
35°	1334	1331	1354	1345	1345	834
45°	1112	1109	1120	1106	1102	856
55°	850	840	840	827	827	758
65°	551	539	540	536	536	545
75°	238	249	263	265	265	257
85°	35	53	63	64	63	47
90°	2	6	12	13	12	6
95°	64	223	682	353	210	67
105°	206	318	1229	1813	1739	217
115°	363	443	1020	1974	2228	358
125°	496	569	919	1551	1822	443
135°	595	666	894	1252	1417	460
145°	692	744	882	1072	1153	433
155°	781	812	874	961	993	360
165°	851	859	878	912	917	240
175°	883	882	879	890	888	84
180°	882	882	882	882	882	



TEST NUMBER: P563154

CATALOG NUMBER: SQ4-PC3-150U-125D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1701.0	1701.0	1701.0	1701.0	1701.0
2.5°	1711.0	1696.3	1701.0	1697.0	1690.9
5°	1707.3	1690.3	1696.2	1691.5	1689.9
7.5°	1695.0	1678.0	1685.8	1682.7	1681.1
10°	1683.6	1666.7	1675.8	1672.6	1671.0
12.5°	1668.5	1652.8	1663.2	1660.0	1659.7
15°	1642.7	1628.8	1642.7	1642.6	1641.1
17.5°	1610.2	1597.6	1612.4	1613.4	1612.4
20°	1587.6	1573.7	1592.3	1590.7	1592.3
22.5°	1559.8	1548.4	1568.3	1564.3	1565.8
25°	1516.7	1505.9	1527.7	1523.0	1523.0
27.5°	1465.7	1458.0	1481.7	1476.7	1476.7
30°	1431.6	1423.9	1449.0	1442.7	1442.7
32.5°	1393.8	1388.6	1412.4	1404.9	1404.9
35°	1334.0	1330.9	1354.5	1345.0	1345.0
37.5°	1272.3	1269.5	1290.8	1279.4	1275.7
40°	1226.9	1225.4	1244.2	1231.6	1231.6
42.5°	1181.5	1180.0	1196.3	1181.2	1181.2
45°	1111.9	1108.8	1119.8	1105.6	1102.5
47.5°	1036.0	1032.9	1039.8	1024.3	1022.8
50°	984.3	981.3	984.3	970.1	968.6
52.5°	931.4	925.9	926.4	912.2	911.9
55°	850.5	839.7	839.5	826.9	826.9
57.5°	764.8	750.6	751.9	741.1	739.6
60°	705.6	690.2	691.4	681.9	680.4
62.5°	647.6	629.8	633.4	622.7	622.4
65°	551.2	538.9	540.2	535.5	535.5
67.5°	458.6	447.2	455.5	451.7	451.4
70°	390.6	382.9	393.7	393.7	392.2
72.5°	327.6	327.3	340.8	340.8	341.8
75°	237.8	248.6	263.0	264.6	264.6
77.5°	158.8	177.9	193.7	194.3	194.0
80°	113.4	135.0	149.6	152.7	151.2
82.5°	76.9	99.6	111.8	114.9	113.4
85°	34.6	53.1	63.0	64.5	63.0
87.5°	10.5	22.3	27.7	27.8	25.1
90°	1.9	5.6	12.3	13.3	12.3
92.5°	27.0	98.2	193.8	84.2	60.9
95°	63.6	223.3	681.6	352.7	209.8
97.5°	102.1	256.0	1062.5	879.3	645.7
100°	131.0	269.3	1180.9	1231.6	995.8
102.5°	157.6	287.7	1222.7	1498.7	1322.4
105°	206.0	318.3	1229.3	1813.4	1739.1
107.5°	250.8	353.3	1175.6	2009.7	2034.4
110°	285.7	378.6	1127.8	2062.4	2167.3



TEST NUMBER: P563154

CATALOG NUMBER: SQ4-PC3-150U-125D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	316.9	403.8	1083.7	2051.8	2228.0
115°	362.6	443.4	1019.6	1973.7	2228.0
117.5°	407.4	483.2	977.2	1854.3	2142.6
120°	434.8	509.0	952.2	1768.6	2062.8
122.5°	460.6	533.4	937.0	1676.8	1973.2
125°	496.5	568.9	918.9	1550.7	1821.7
127.5°	529.5	600.6	908.3	1447.8	1686.2
130°	547.7	621.1	903.7	1384.2	1599.6
132.5°	566.7	639.3	899.2	1326.9	1525.2
135°	595.2	665.8	894.2	1252.1	1417.3
137.5°	623.9	690.5	890.1	1191.4	1326.0
140°	643.6	705.8	888.5	1152.3	1272.1
142.5°	662.6	721.1	885.5	1117.1	1221.9
145°	692.0	744.0	881.9	1071.7	1153.4
147.5°	718.8	764.9	877.7	1030.7	1093.4
150°	738.6	779.4	876.2	1008.4	1058.5
152.5°	756.8	792.4	875.4	987.6	1028.9
155°	781.3	811.9	874.3	961.4	993.0
157.5°	806.7	828.1	874.5	943.1	963.9
160°	821.1	838.8	875.3	931.6	946.5
162.5°	832.5	847.2	876.0	922.4	933.5
165°	850.6	858.9	878.1	912.4	917.0
167.5°	862.9	868.7	878.3	903.8	906.0
170°	870.5	873.3	879.1	899.9	899.9
172.5°	876.6	877.1	879.1	895.4	894.6
175°	882.9	881.9	879.1	890.4	888.5
177.5°	884.9	882.7	878.9	886.4	884.2
180°	881.9	881.9	881.9	881.9	881.9

(END OF REPORT)