

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: P563158

Luminaire Tested: **SQ4-PC3-150U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563158
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

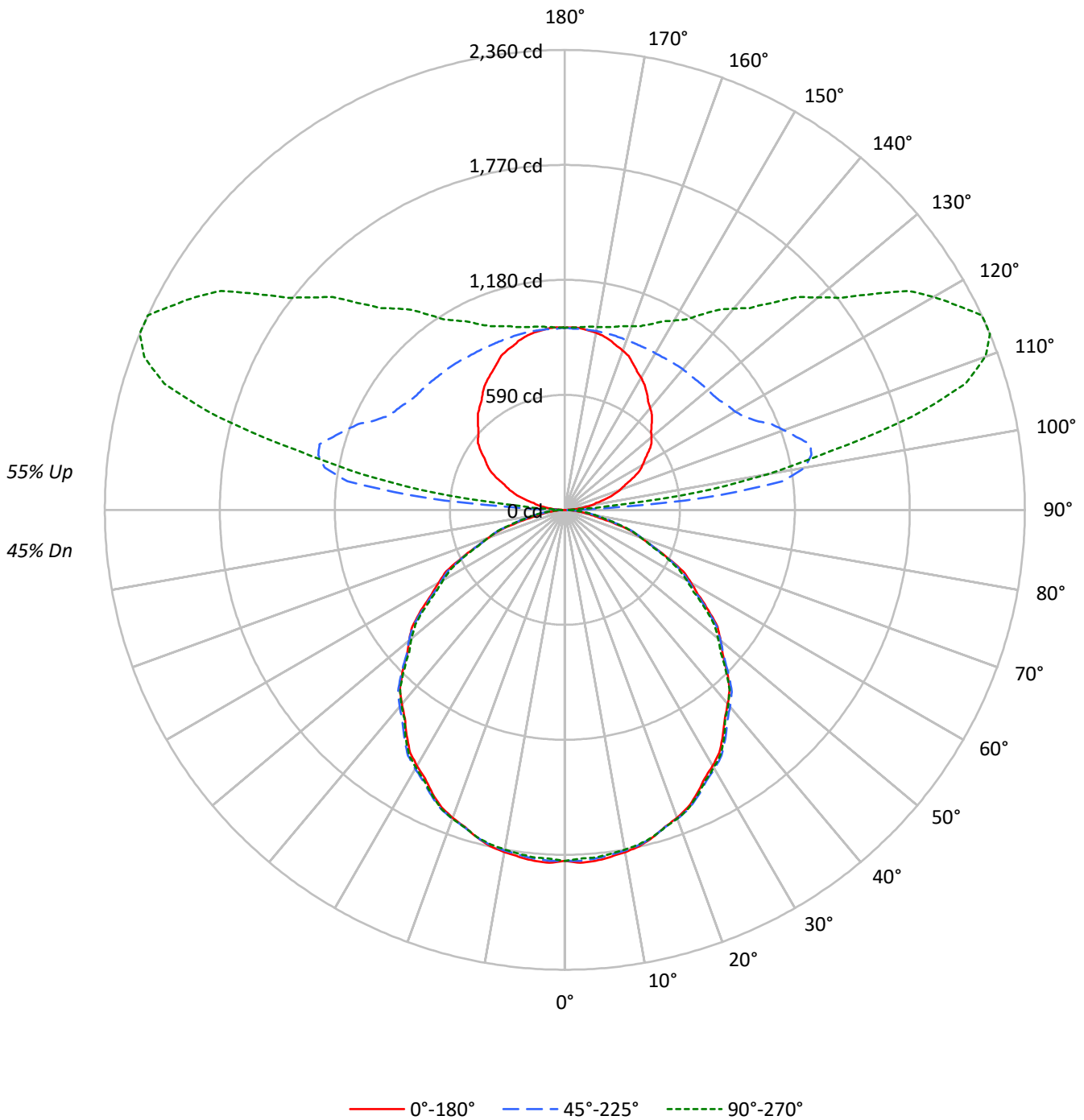
Lumens per Lamp: N/A
Luminaire Lumens: 10944.1 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P563158
CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563158

CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-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°	16627	16627	16627
5°	16751	16644	16582
10°	16711	16633	16586
15°	16623	16623	16607
20°	16513	16563	16563
25°	16357	16476	16425
30°	16158	16354	16283
35°	15918	16163	16050
40°	15655	15876	15715
45°	15370	15480	15240
50°	14969	14969	14729
55°	14493	14306	14091
60°	13793	13516	13300
65°	12749	12494	12385
70°	11163	11252	11208
75°	8983	9935	9992
80°	6381	8421	8512
85°	3885	7061	7061



TEST NUMBER: P563158

CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	1.6
10°-20°	489.4	4.5
20°-30°	741.2	6.8
30°-40°	888.6	8.1
40°-50°	906.0	8.3
50°-60°	790.9	7.2
60°-70°	566.2	5.2
70°-80°	291.6	2.7
80°-90°	75.7	0.7
90°-100°	434.2	4.0
100°-110°	1174.0	10.7
110°-120°	1234.3	11.3
120°-130°	1002.6	9.2
130°-140°	786.5	7.2
140°-150°	603.6	5.5
150°-160°	434.1	4.0
160°-170°	265.2	2.4
170°-180°	89.4	0.8
0°-30°	1401.1	12.8
0°-40°	2289.7	20.9
0°-60°	3986.6	36.4
0°-90°	4920.1	45.0
90°-120°	2842.6	26.0
90°-150°	5235.3	47.8
90°-180°	6024.0	55.0
0°-180°	10944.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1802	1802	1802	1802	1802	
5°	1809	1791	1797	1792	1790	172
15°	1740	1726	1740	1740	1739	491
25°	1607	1595	1618	1614	1614	739
35°	1413	1410	1435	1425	1425	884
45°	1178	1175	1186	1171	1168	907
55°	901	890	889	876	876	803
65°	584	571	572	567	567	578
75°	252	263	279	280	280	272
85°	37	56	67	68	67	50
90°	2	6	13	14	13	6
95°	67	236	722	374	222	71
105°	218	337	1302	1921	1842	230
115°	384	470	1080	2091	2360	379
125°	526	603	974	1643	1930	469
135°	631	705	947	1326	1502	487
145°	733	788	934	1135	1222	459
155°	828	860	926	1019	1052	382
165°	901	910	930	967	972	254
175°	935	934	931	943	941	89
180°	934	934	934	934	934	

TEST NUMBER: P563158

CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1802.1	1802.1	1802.1	1802.1	1802.1
2.5°	1812.7	1797.1	1802.1	1797.9	1791.4
5°	1808.7	1790.8	1797.1	1792.0	1790.4
7.5°	1795.7	1777.8	1786.0	1782.7	1781.0
10°	1783.7	1765.8	1775.4	1772.0	1770.4
12.5°	1767.7	1751.1	1762.0	1758.7	1758.3
15°	1740.3	1725.6	1740.3	1740.3	1738.7
17.5°	1706.0	1692.6	1708.3	1709.3	1708.3
20°	1681.9	1667.2	1686.9	1685.3	1686.9
22.5°	1652.6	1640.5	1661.6	1657.3	1658.9
25°	1606.8	1595.4	1618.5	1613.5	1613.5
27.5°	1552.8	1544.6	1569.8	1564.5	1564.5
30°	1516.7	1508.6	1535.1	1528.4	1528.4
32.5°	1476.7	1471.1	1496.4	1488.4	1488.4
35°	1413.3	1410.0	1435.0	1425.0	1425.0
37.5°	1347.9	1344.9	1367.6	1355.5	1351.5
40°	1299.8	1298.2	1318.2	1304.8	1304.8
42.5°	1251.8	1250.1	1267.5	1251.4	1251.4
45°	1178.0	1174.8	1186.4	1171.3	1168.0
47.5°	1097.6	1094.3	1101.6	1085.2	1083.6
50°	1042.9	1039.6	1042.9	1027.8	1026.2
52.5°	986.8	980.9	981.5	966.4	966.1
55°	901.0	889.6	889.4	876.0	876.0
57.5°	810.3	795.3	796.6	785.2	783.6
60°	747.5	731.2	732.5	722.5	720.8
62.5°	686.1	667.2	671.1	659.7	659.4
65°	584.0	571.0	572.3	567.3	567.3
67.5°	485.9	473.8	482.6	478.5	478.2
70°	413.8	405.6	417.1	417.1	415.5
72.5°	347.1	346.7	361.1	361.1	362.1
75°	252.0	263.4	278.7	280.3	280.3
77.5°	168.2	188.4	205.2	205.9	205.6
80°	120.1	143.0	158.5	161.8	160.2
82.5°	81.4	105.6	118.5	121.8	120.1
85°	36.7	56.3	66.7	68.4	66.7
87.5°	11.1	23.6	29.3	29.4	26.6
90°	2.0	5.9	13.1	14.1	13.1
92.5°	28.6	104.1	205.4	89.2	64.6
95°	67.4	236.5	722.1	373.7	222.3
97.5°	108.2	271.3	1125.6	931.5	684.1
100°	138.8	285.3	1251.1	1304.8	1055.0
102.5°	167.0	304.8	1295.4	1587.8	1401.0
105°	218.2	337.2	1302.4	1921.2	1842.5
107.5°	265.7	374.3	1245.5	2129.1	2155.3
110°	302.7	401.1	1194.8	2185.0	2296.1



TEST NUMBER: P563158

CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.7	427.8	1148.1	2173.8	2360.5
115°	384.2	469.7	1080.2	2091.0	2360.5
117.5°	431.7	511.9	1035.3	1964.5	2269.9
120°	460.6	539.3	1008.8	1873.7	2185.5
122.5°	488.0	565.1	992.7	1776.4	2090.5
125°	526.0	602.7	973.6	1642.9	1930.0
127.5°	561.0	636.3	962.3	1533.9	1786.4
130°	580.3	658.0	957.5	1466.5	1694.7
132.5°	600.4	677.3	952.6	1405.8	1615.8
135°	630.6	705.3	947.4	1326.5	1501.6
137.5°	661.0	731.6	943.0	1262.2	1404.8
140°	681.9	747.8	941.4	1220.8	1347.7
142.5°	702.0	764.0	938.1	1183.5	1294.6
145°	733.2	788.2	934.3	1135.4	1222.0
147.5°	761.5	810.3	929.9	1091.9	1158.4
150°	782.5	825.7	928.3	1068.3	1121.4
152.5°	801.8	839.5	927.5	1046.4	1090.0
155°	827.7	860.2	926.3	1018.6	1052.0
157.5°	854.7	877.3	926.5	999.2	1021.2
160°	870.0	888.6	927.3	987.0	1002.7
162.5°	882.0	897.6	928.1	977.2	989.0
165°	901.1	910.0	930.3	966.6	971.5
167.5°	914.2	920.3	930.5	957.5	959.9
170°	922.3	925.2	931.3	953.4	953.4
172.5°	928.7	929.3	931.3	948.6	947.8
175°	935.3	934.3	931.3	943.3	941.4
177.5°	937.5	935.2	931.1	939.1	936.7
180°	934.3	934.3	934.3	934.3	934.3

(END OF REPORT)