

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: P563171

Luminaire Tested: **SQ4-PC3-150U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563171
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-935-1D-UNV-STD-W-6
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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

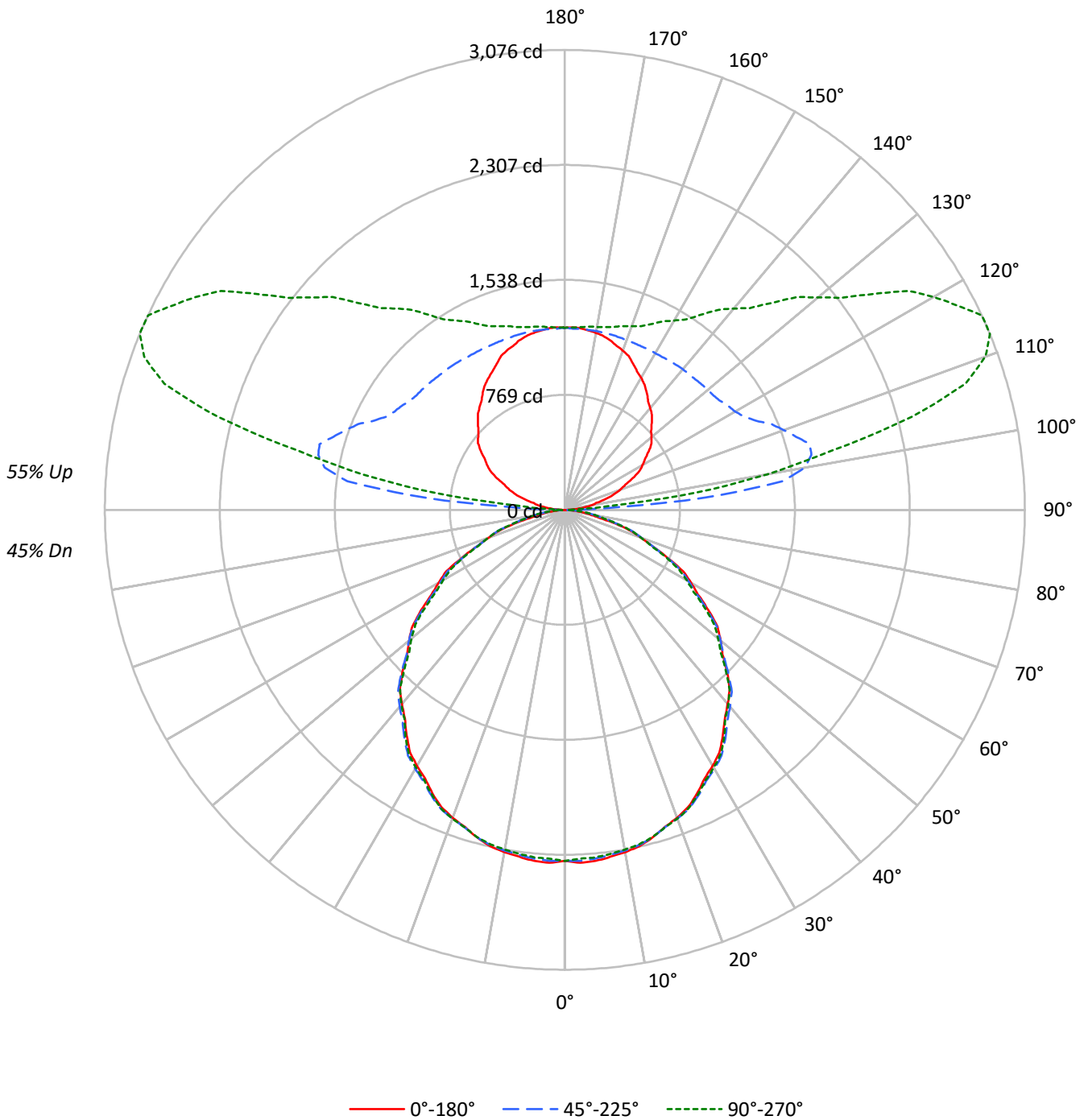
Lumens per Lamp: N/A
Luminaire Lumens: 14263.9 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 127.1
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



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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	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°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14443	14443	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14044	13945
40°	13602	13794	13655
45°	13356	13450	13242
50°	13006	13006	12798
55°	12594	12430	12243
60°	11985	11744	11557
65°	11079	10856	10761
70°	9699	9778	9738
75°	7804	8631	8684
80°	5547	7318	7396
85°	3373	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	1.6
10°-20°	637.9	4.5
20°-30°	966.0	6.8
30°-40°	1158.1	8.1
40°-50°	1180.8	8.3
50°-60°	1030.8	7.2
60°-70°	738.0	5.2
70°-80°	380.1	2.7
80°-90°	98.6	0.7
90°-100°	565.9	4.0
100°-110°	1530.2	10.7
110°-120°	1608.7	11.3
120°-130°	1306.7	9.2
130°-140°	1025.0	7.2
140°-150°	786.7	5.5
150°-160°	565.8	4.0
160°-170°	345.6	2.4
170°-180°	116.5	0.8
0°-30°	1826.1	12.8
0°-40°	2984.2	20.9
0°-60°	5195.9	36.4
0°-90°	6412.6	45.0
90°-120°	3704.8	26.0
90°-150°	6823.3	47.8
90°-180°	7851.0	55.0
0°-180°	14263.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2349	2349	2349	2349	2349	
5°	2357	2334	2342	2336	2334	224
15°	2268	2249	2268	2268	2266	640
25°	2094	2079	2110	2103	2103	964
35°	1842	1838	1870	1857	1857	1152
45°	1535	1531	1546	1527	1522	1182
55°	1174	1160	1159	1142	1142	1047
65°	761	744	746	739	739	753
75°	328	343	363	365	365	355
85°	48	73	87	89	87	65
90°	3	8	17	18	17	8
95°	88	308	941	487	290	92
105°	284	440	1698	2504	2401	300
115°	501	612	1408	2725	3076	494
125°	686	786	1269	2141	2515	611
135°	822	919	1235	1729	1957	635
145°	956	1027	1218	1480	1593	598
155°	1079	1121	1207	1328	1371	498
165°	1174	1186	1212	1260	1266	331
175°	1219	1218	1214	1230	1227	116
180°	1218	1218	1218	1218	1218	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2348.7	2348.7	2348.7	2348.7	2348.7
2.5°	2362.6	2342.2	2348.7	2343.3	2334.8
5°	2357.4	2334.0	2342.2	2335.6	2333.5
7.5°	2340.4	2317.0	2327.8	2323.4	2321.3
10°	2324.8	2301.4	2313.9	2309.5	2307.4
12.5°	2303.9	2282.2	2296.5	2292.1	2291.7
15°	2268.2	2249.1	2268.2	2268.2	2266.1
17.5°	2223.4	2206.0	2226.5	2227.8	2226.5
20°	2192.1	2173.0	2198.6	2196.5	2198.6
22.5°	2153.8	2138.1	2165.6	2160.0	2162.1
25°	2094.3	2079.4	2109.5	2103.0	2103.0
27.5°	2023.8	2013.2	2046.0	2039.0	2039.0
30°	1976.8	1966.2	2000.7	1992.0	1992.0
32.5°	1924.6	1917.4	1950.3	1939.9	1939.9
35°	1842.0	1837.7	1870.3	1857.2	1857.2
37.5°	1756.7	1752.9	1782.4	1766.6	1761.5
40°	1694.1	1692.0	1718.0	1700.6	1700.6
42.5°	1631.5	1629.4	1651.9	1631.0	1631.0
45°	1535.4	1531.1	1546.2	1526.6	1522.3
47.5°	1430.5	1426.3	1435.8	1414.4	1412.3
50°	1359.2	1354.9	1359.2	1339.6	1337.5
52.5°	1286.1	1278.5	1279.2	1259.6	1259.2
55°	1174.4	1159.5	1159.1	1141.7	1141.7
57.5°	1056.0	1036.5	1038.2	1023.4	1021.3
60°	974.3	953.0	954.7	941.6	939.5
62.5°	894.2	869.6	874.7	859.9	859.5
65°	761.2	744.1	745.9	739.4	739.4
67.5°	633.3	617.5	628.9	623.7	623.3
70°	539.3	528.7	543.7	543.6	541.5
72.5°	452.3	451.9	470.6	470.6	471.9
75°	328.4	343.3	363.2	365.4	365.4
77.5°	219.2	245.6	267.5	268.4	267.9
80°	156.6	186.3	206.6	210.9	208.8
82.5°	106.1	137.6	154.4	158.7	156.6
85°	47.8	73.4	87.0	89.1	87.0
87.5°	14.4	30.8	38.2	38.4	34.7
90°	2.6	7.7	17.0	18.3	17.0
92.5°	37.2	135.7	267.7	116.2	84.2
95°	87.8	308.3	941.2	487.1	289.7
97.5°	141.0	353.5	1467.1	1214.1	891.6
100°	180.9	371.9	1630.7	1700.6	1375.0
102.5°	217.6	397.3	1688.3	2069.5	1826.0
105°	284.4	439.5	1697.5	2503.9	2401.4
107.5°	346.3	487.8	1623.3	2775.0	2809.1
110°	394.6	522.7	1557.2	2847.8	2992.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.5	557.5	1496.4	2833.2	3076.5
115°	500.7	612.2	1407.8	2725.3	3076.5
117.5°	562.6	667.2	1349.4	2560.4	2958.5
120°	600.4	702.9	1314.7	2442.1	2848.4
122.5°	636.0	736.5	1293.8	2315.3	2724.7
125°	685.6	785.5	1268.9	2141.2	2515.4
127.5°	731.2	829.3	1254.2	1999.1	2328.3
130°	756.3	857.6	1247.9	1911.4	2208.7
132.5°	782.6	882.8	1241.6	1832.2	2106.0
135°	821.9	919.3	1234.8	1728.9	1957.0
137.5°	861.5	953.5	1229.0	1645.1	1830.9
140°	888.7	974.6	1226.9	1591.2	1756.5
142.5°	914.9	995.7	1222.7	1542.4	1687.3
145°	955.6	1027.4	1217.7	1479.8	1592.6
147.5°	992.5	1056.1	1212.0	1423.2	1509.8
150°	1019.8	1076.2	1209.9	1392.3	1461.6
152.5°	1045.0	1094.2	1208.8	1363.8	1420.7
155°	1078.8	1121.1	1207.3	1327.5	1371.1
157.5°	1113.9	1143.4	1207.5	1302.3	1331.0
160°	1133.9	1158.2	1208.6	1286.4	1306.9
162.5°	1149.6	1169.8	1209.6	1273.7	1289.1
165°	1174.5	1186.0	1212.5	1259.8	1266.2
167.5°	1191.5	1199.5	1212.8	1248.0	1251.0
170°	1202.0	1205.9	1213.8	1242.7	1242.7
172.5°	1210.4	1211.2	1213.8	1236.3	1235.3
175°	1219.1	1217.8	1213.8	1229.5	1226.9
177.5°	1221.9	1218.9	1213.6	1224.0	1220.9
180°	1217.7	1217.7	1217.7	1217.7	1217.7

(END OF REPORT)