

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: P563843

Luminaire Tested: **SQ4-PP3-150U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563843
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

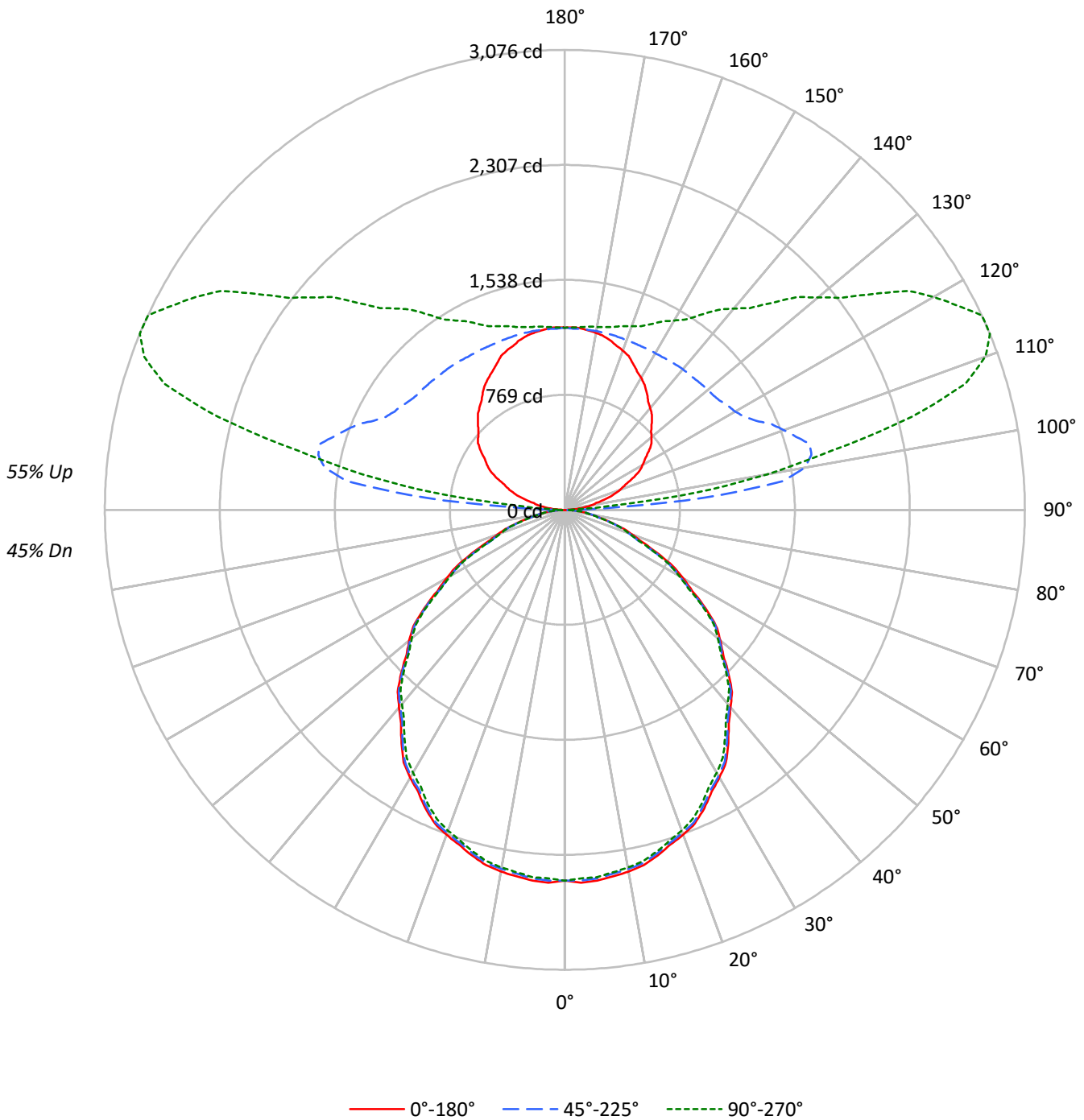
Lumens per Lamp: N/A
Luminaire Lumens: 14203.2 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15259	15259	15259
5°	15371	15276	15223
10°	15345	15236	15168
15°	15243	15160	15077
20°	15142	15057	14943
25°	14962	14859	14711
30°	14685	14608	14423
35°	14301	14204	14023
40°	13843	13757	13599
45°	13465	13371	13238
50°	12982	12899	12775
55°	12311	12148	12054
60°	11207	10886	10833
65°	9873	9462	9430
70°	8524	8172	8172
75°	7336	7234	7129
80°	6468	6546	6394
85°	5060	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	1.7
10°-20°	669.8	4.7
20°-30°	1003.3	7.1
30°-40°	1176.8	8.3
40°-50°	1180.5	8.3
50°-60°	1007.0	7.1
60°-70°	656.8	4.6
70°-80°	329.5	2.3
80°-90°	93.7	0.7
90°-100°	565.9	4.0
100°-110°	1530.2	10.8
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°	1907.7	13.4
0°-40°	3084.5	21.7
0°-60°	5272.0	37.1
0°-90°	6351.9	44.7
90°-120°	3704.8	26.1
90°-150°	6823.3	48.0
90°-180°	7851.0	55.3
0°-180°	14203.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2481	2481	2481	2481	2481	
5°	2490	2466	2474	2466	2466	236
15°	2394	2370	2381	2372	2368	675
25°	2205	2179	2189	2170	2168	1014
35°	1905	1886	1892	1870	1868	1190
45°	1548	1537	1537	1522	1522	1192
55°	1148	1144	1133	1126	1124	1020
65°	678	666	650	646	648	677
75°	309	309	304	302	300	335
85°	72	78	78	78	78	84
90°	3	8	17	18	17	9
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°	2480.8	2480.8	2480.8	2480.8	2480.8
2.5°	2496.4	2476.0	2480.8	2477.1	2466.9
5°	2489.5	2466.1	2474.2	2465.6	2465.6
7.5°	2472.5	2447.0	2455.1	2446.4	2446.0
10°	2456.9	2431.3	2439.5	2430.7	2428.6
12.5°	2434.2	2408.7	2418.6	2408.1	2407.7
15°	2393.8	2370.4	2380.8	2372.0	2367.7
17.5°	2348.1	2322.6	2335.1	2322.9	2321.2
20°	2313.4	2287.8	2300.3	2282.9	2282.9
22.5°	2271.6	2246.1	2260.3	2237.7	2237.7
25°	2204.6	2179.1	2189.4	2169.8	2167.7
27.5°	2125.1	2100.0	2110.7	2088.5	2088.1
30°	2067.7	2044.3	2056.8	2032.8	2030.7
32.5°	2005.1	1983.4	1992.4	1968.5	1966.4
35°	1904.6	1885.5	1891.6	1869.8	1867.6
37.5°	1798.9	1779.4	1786.3	1767.6	1766.8
40°	1724.1	1711.4	1713.3	1698.0	1693.7
42.5°	1654.6	1640.1	1642.0	1626.7	1625.9
45°	1548.0	1537.4	1537.2	1521.9	1521.9
47.5°	1435.0	1426.9	1424.5	1411.9	1411.5
50°	1356.7	1350.3	1348.0	1337.1	1335.0
52.5°	1275.0	1272.0	1264.5	1255.4	1255.0
55°	1148.0	1143.7	1132.8	1126.2	1124.1
57.5°	1010.1	1001.6	989.3	979.7	981.4
60°	911.0	902.5	884.9	880.6	880.6
62.5°	815.3	805.1	787.5	781.5	784.9
65°	678.4	665.6	650.1	645.8	647.9
67.5°	554.0	542.5	525.7	525.7	524.0
70°	474.0	467.6	454.4	454.4	454.4
72.5°	402.7	399.7	390.1	390.0	388.3
75°	308.7	308.7	304.4	302.2	300.0
77.5°	231.3	232.2	230.0	227.8	223.9
80°	182.6	186.9	184.8	182.6	180.5
82.5°	137.4	141.7	141.3	137.4	137.0
85°	71.7	78.1	78.3	78.3	78.3
87.5°	19.7	27.5	31.2	31.5	33.0
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)