

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: P564515

Luminaire Tested: **SQ4-PR1-150U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564515
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

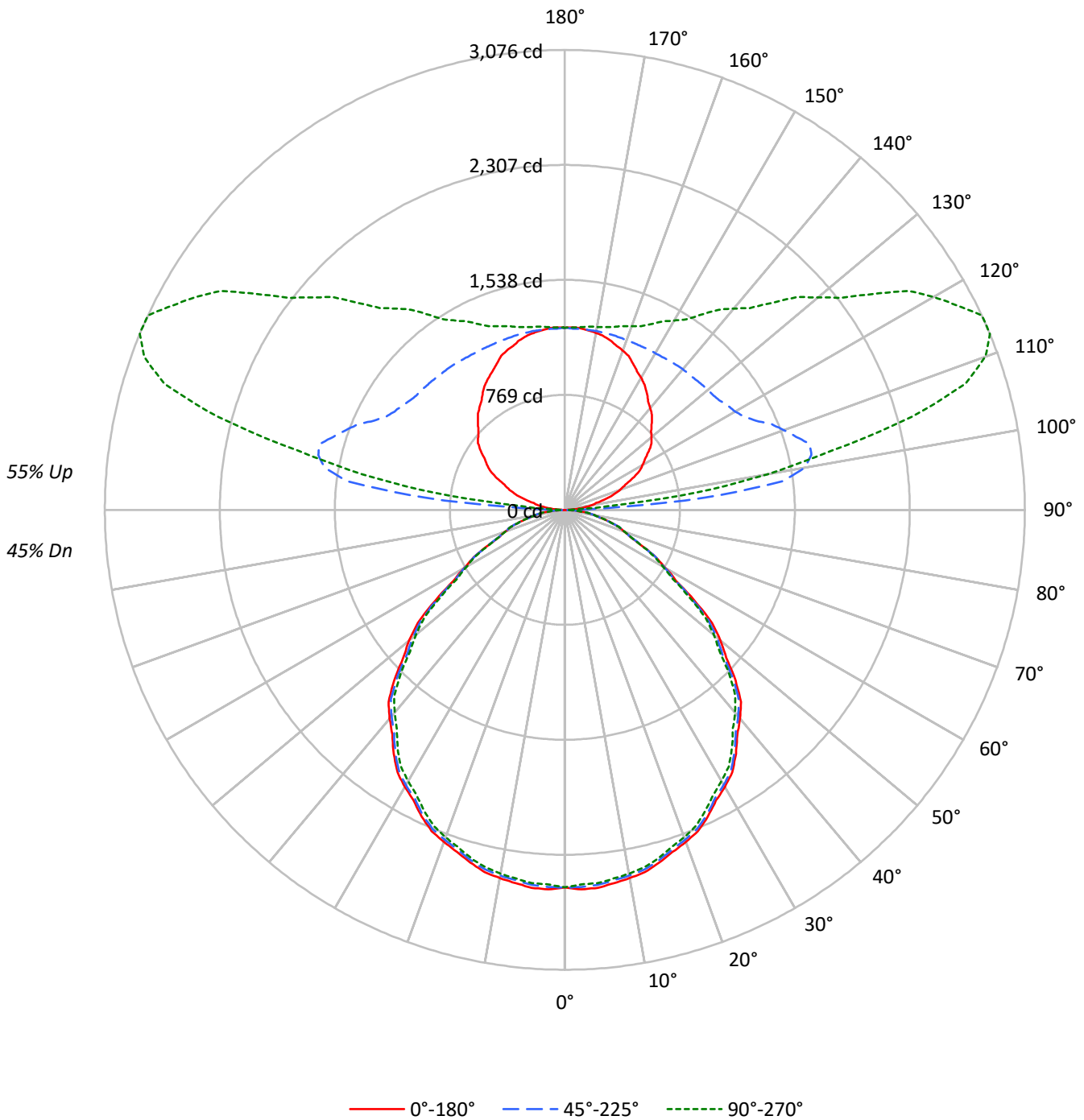
Lumens per Lamp: N/A
Luminaire Lumens: 14165.6 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	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	75	69	65	62	59	55	51	48	46	40	39	37	32				
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18				
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14843	14631
40°	14633	14475	14213
45°	14036	13791	13506
50°	12985	12673	12423
55°	11334	11077	10844
60°	9551	9471	9283
65°	8261	8293	8229
70°	7587	7627	7627
75°	7286	7286	7339
80°	6854	6932	6854
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	1.7
10°-20°	683.1	4.8
20°-30°	1030.4	7.3
30°-40°	1227.7	8.7
40°-50°	1210.4	8.5
50°-60°	925.0	6.5
60°-70°	572.5	4.0
70°-80°	325.1	2.3
80°-90°	101.4	0.7
90°-100°	565.9	4.0
100°-110°	1530.2	10.8
110°-120°	1608.7	11.4
120°-130°	1306.7	9.2
130°-140°	1025.0	7.2
140°-150°	786.7	5.6
150°-160°	565.8	4.0
160°-170°	345.6	2.4
170°-180°	116.5	0.8
0°-30°	1952.3	13.8
0°-40°	3179.9	22.4
0°-60°	5315.4	37.5
0°-90°	6314.4	44.6
90°-120°	3704.8	26.2
90°-150°	6823.3	48.2
90°-180°	7851.0	55.4
0°-180°	14165.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2525	2525	2525	2525	2525	
5°	2538	2510	2518	2510	2505	241
15°	2442	2417	2427	2418	2414	689
25°	2264	2236	2249	2225	2223	1042
35°	1994	1971	1977	1951	1948	1245
45°	1614	1592	1585	1557	1553	1236
55°	1057	1040	1033	1016	1011	947
65°	568	563	570	565	565	575
75°	307	307	307	309	309	324
85°	78	82	87	87	87	91
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°	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	2540.5	2518.4	2524.8	2519.4	2507.5
5°	2537.9	2510.3	2518.3	2509.5	2505.3
7.5°	2518.3	2491.1	2499.2	2490.4	2487.9
10°	2500.9	2475.4	2483.5	2474.7	2470.5
12.5°	2481.8	2454.6	2464.4	2453.9	2449.6
15°	2442.2	2416.7	2427.0	2418.2	2413.9
17.5°	2398.7	2371.5	2381.8	2371.6	2366.1
20°	2363.9	2338.4	2348.7	2333.4	2331.3
22.5°	2325.6	2300.1	2310.4	2290.0	2289.5
25°	2263.9	2236.2	2248.7	2224.7	2222.6
27.5°	2190.4	2164.9	2175.2	2150.7	2148.2
30°	2139.9	2114.4	2124.7	2098.5	2094.3
32.5°	2082.5	2058.7	2067.3	2041.1	2038.6
35°	1994.2	1970.8	1976.8	1950.7	1948.5
37.5°	1893.7	1872.5	1875.9	1847.2	1845.0
40°	1822.4	1801.2	1802.8	1772.3	1770.2
42.5°	1744.1	1722.9	1721.1	1690.6	1688.5
45°	1613.6	1592.4	1585.4	1557.0	1552.7
47.5°	1464.9	1443.6	1430.5	1407.4	1404.4
50°	1357.0	1335.8	1324.4	1304.7	1298.3
52.5°	1240.5	1219.2	1209.6	1191.6	1185.2
55°	1056.9	1039.9	1033.0	1015.5	1011.2
57.5°	882.5	871.0	869.0	852.0	850.3
60°	776.4	770.0	769.9	754.6	754.6
62.5°	685.9	681.2	684.6	674.6	672.9
65°	567.6	563.3	569.8	565.4	565.4
67.5°	474.1	474.1	478.0	476.3	476.3
70°	421.9	421.9	424.1	424.1	424.1
72.5°	374.9	373.2	378.8	378.8	377.1
75°	306.6	306.6	306.6	308.8	308.8
77.5°	238.8	239.2	241.0	240.5	238.8
80°	193.5	195.7	195.7	193.5	193.5
82.5°	148.3	150.4	150.5	150.0	148.3
85°	78.3	82.5	87.0	87.0	87.0
87.5°	23.1	31.0	38.2	38.4	36.5
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)