

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: P563839

Luminaire Tested: **SQ4-PP3-150U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563839
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

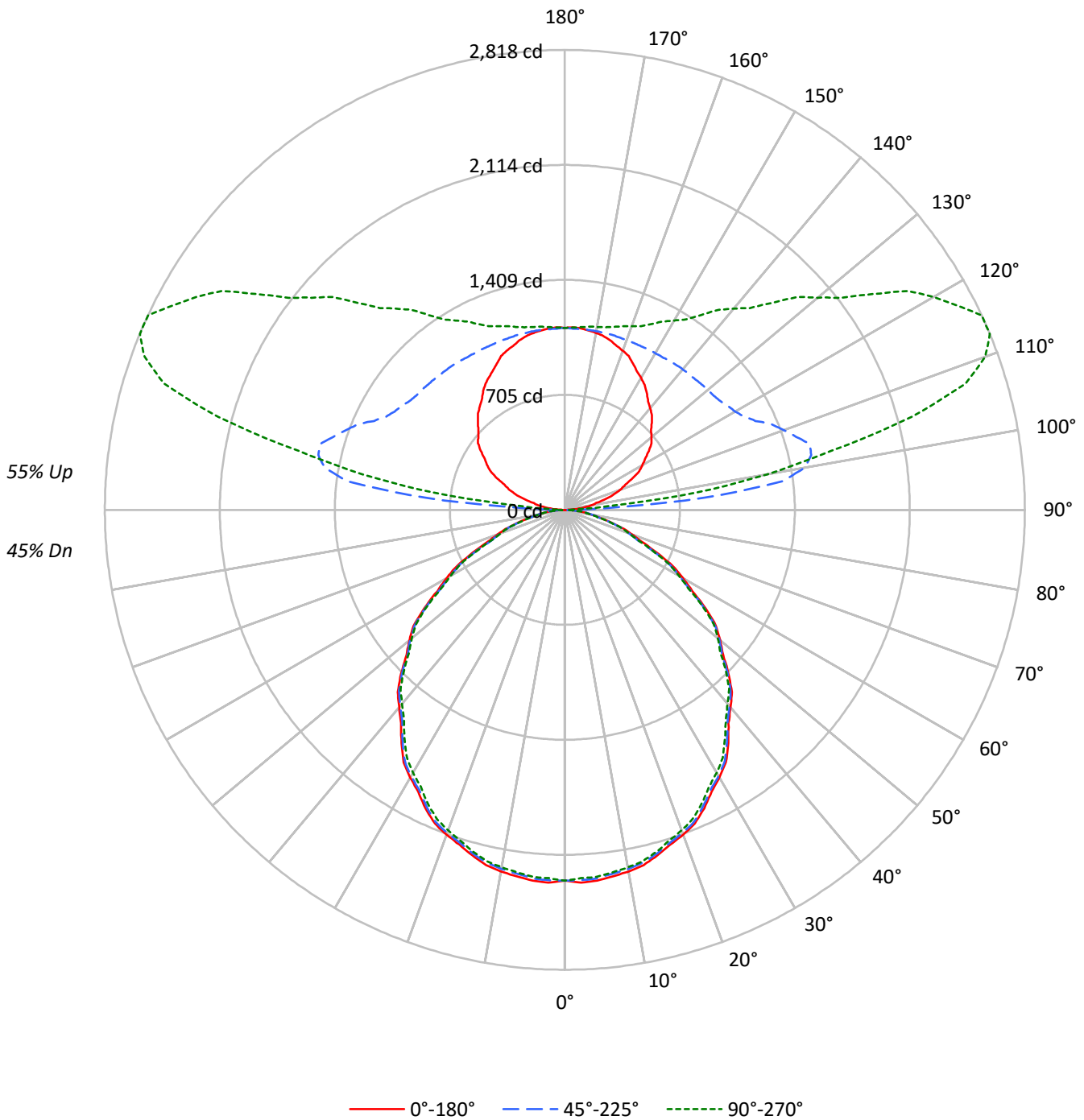
Lumens per Lamp: N/A
Luminaire Lumens: 13007.7 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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°	13975	13975	13975
5°	14077	13991	13942
10°	14053	13953	13892
15°	13960	13884	13808
20°	13867	13790	13685
25°	13703	13608	13473
30°	13449	13379	13209
35°	13097	13007	12843
40°	12678	12599	12454
45°	12332	12246	12124
50°	11889	11813	11699
55°	11275	11125	11039
60°	10263	9969	9920
65°	9042	8665	8636
70°	7807	7485	7485
75°	6721	6626	6531
80°	5926	5997	5855
85°	4637	5060	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	1.7
10°-20°	613.4	4.7
20°-30°	918.8	7.1
30°-40°	1077.7	8.3
40°-50°	1081.1	8.3
50°-60°	922.3	7.1
60°-70°	601.5	4.6
70°-80°	301.8	2.3
80°-90°	85.8	0.7
90°-100°	518.3	4.0
100°-110°	1401.4	10.8
110°-120°	1473.3	11.3
120°-130°	1196.7	9.2
130°-140°	938.7	7.2
140°-150°	720.5	5.5
150°-160°	518.2	4.0
160°-170°	316.5	2.4
170°-180°	106.7	0.8
0°-30°	1747.1	13.4
0°-40°	2824.8	21.7
0°-60°	4828.2	37.1
0°-90°	5817.3	44.7
90°-120°	3393.0	26.1
90°-150°	6249.0	48.0
90°-180°	7190.0	55.3
0°-180°	13007.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2272	2272	2272	2272	2272	
5°	2280	2258	2266	2258	2258	217
15°	2192	2171	2180	2172	2168	618
25°	2019	1996	2005	1987	1985	928
35°	1744	1727	1732	1712	1710	1090
45°	1418	1408	1408	1394	1394	1092
55°	1051	1048	1037	1031	1029	934
65°	621	610	595	591	593	620
75°	283	283	279	277	275	307
85°	66	72	72	72	72	77
90°	2	7	16	17	16	8
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2272.0	2272.0	2272.0	2272.0	2272.0
2.5°	2286.3	2267.6	2272.0	2268.6	2259.2
5°	2279.9	2258.5	2266.0	2258.0	2258.0
7.5°	2264.4	2241.0	2248.5	2240.5	2240.1
10°	2250.1	2226.7	2234.1	2226.1	2224.2
12.5°	2229.3	2206.0	2215.0	2205.4	2205.1
15°	2192.3	2170.9	2180.4	2172.3	2168.4
17.5°	2150.5	2127.1	2138.5	2127.4	2125.8
20°	2118.6	2095.3	2106.7	2090.8	2090.8
22.5°	2080.4	2057.0	2070.0	2049.3	2049.3
25°	2019.1	1995.7	2005.1	1987.2	1985.2
27.5°	1946.2	1923.2	1933.1	1912.7	1912.3
30°	1893.6	1872.2	1883.7	1861.7	1859.8
32.5°	1836.3	1816.4	1824.7	1802.8	1800.8
35°	1744.3	1726.8	1732.3	1712.4	1710.4
37.5°	1647.5	1629.6	1636.0	1618.8	1618.0
40°	1579.0	1567.3	1569.1	1555.0	1551.1
42.5°	1515.3	1502.1	1503.8	1489.8	1489.0
45°	1417.7	1408.0	1407.8	1393.8	1393.8
47.5°	1314.2	1306.8	1304.6	1293.1	1292.7
50°	1242.5	1236.7	1234.5	1224.5	1222.6
52.5°	1167.6	1164.9	1158.1	1149.7	1149.3
55°	1051.4	1047.5	1037.4	1031.4	1029.4
57.5°	925.1	917.3	906.0	897.3	898.8
60°	834.3	826.5	810.4	806.4	806.4
62.5°	746.7	737.4	721.2	715.7	718.8
65°	621.3	609.6	595.4	591.4	593.4
67.5°	507.4	496.8	481.5	481.4	479.9
70°	434.1	428.2	416.2	416.2	416.2
72.5°	368.8	366.0	357.2	357.2	355.6
75°	282.8	282.8	278.8	276.7	274.8
77.5°	211.9	212.6	210.7	208.6	205.1
80°	167.3	171.2	169.3	167.2	165.3
82.5°	125.8	129.7	129.4	125.8	125.4
85°	65.7	71.6	71.7	71.7	71.7
87.5°	18.0	25.2	28.6	28.9	30.2
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)