

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: P563459

Luminaire Tested: **SQ4-PP3-075U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563459
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

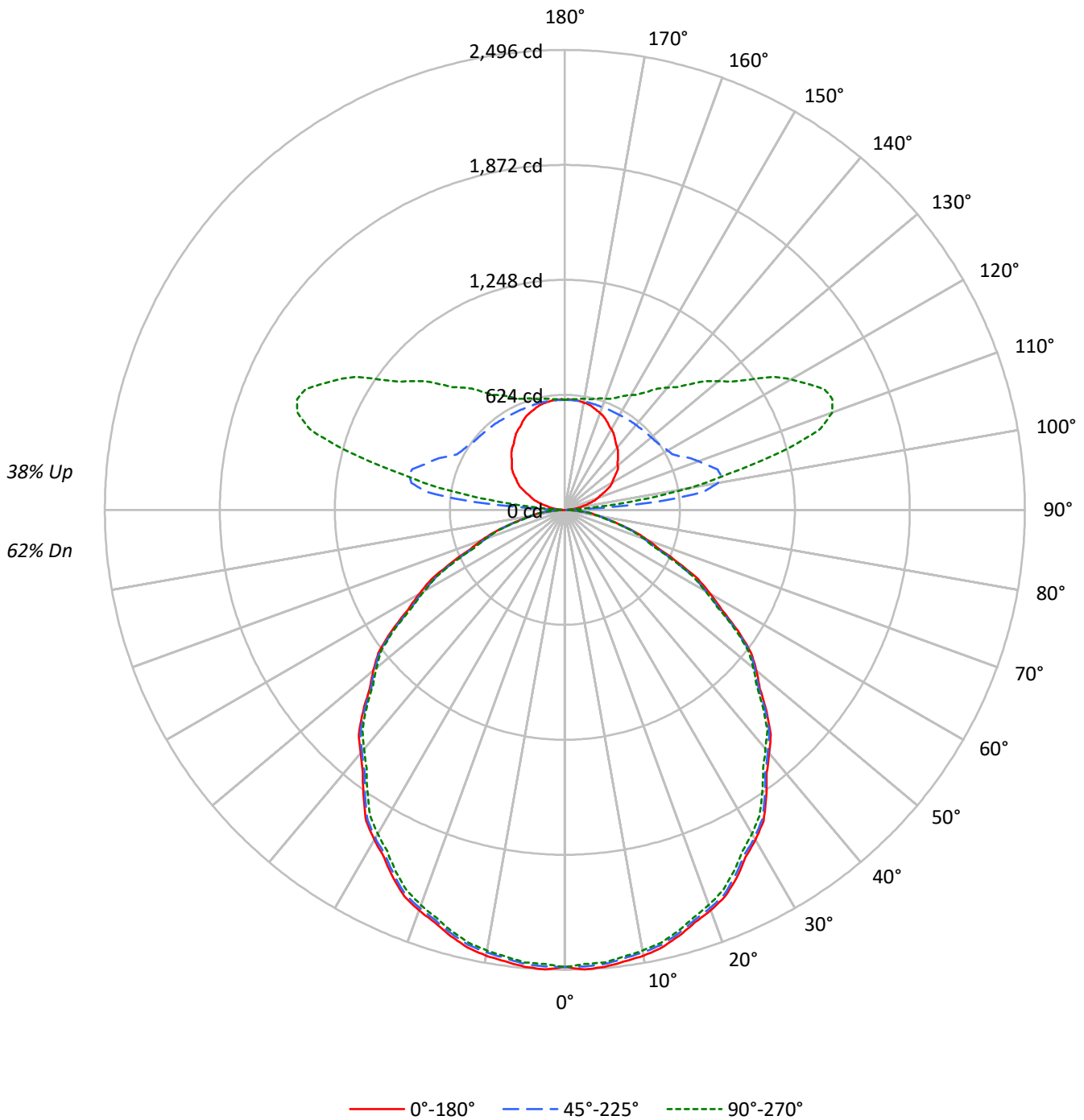
Lumens per Lamp: N/A
Luminaire Lumens: 10252.9 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

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	2.3
10°-20°	669.8	6.5
20°-30°	1003.3	9.8
30°-40°	1176.8	11.5
40°-50°	1180.5	11.5
50°-60°	1007.0	9.8
60°-70°	656.8	6.4
70°-80°	329.5	3.2
80°-90°	92.7	0.9
90°-100°	282.5	2.8
100°-110°	777.2	7.6
110°-120°	802.2	7.8
120°-130°	642.7	6.3
130°-140°	504.8	4.9
140°-150°	386.9	3.8
150°-160°	278.2	2.7
160°-170°	170.1	1.7
170°-180°	57.3	0.6
0°-30°	1907.7	18.6
0°-40°	3084.5	30.1
0°-60°	5272.0	51.4
0°-90°	6350.9	61.9
90°-120°	1861.9	18.2
90°-150°	3396.4	33.1
90°-180°	3902.0	38.1
0°-180°	10252.9	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°	1	5	9	12	12	5
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

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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°	19.4	26.9	29.6	30.2	31.9
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)