

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: P563435

Luminaire Tested: **SQ4-PP3-075U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563435
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-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

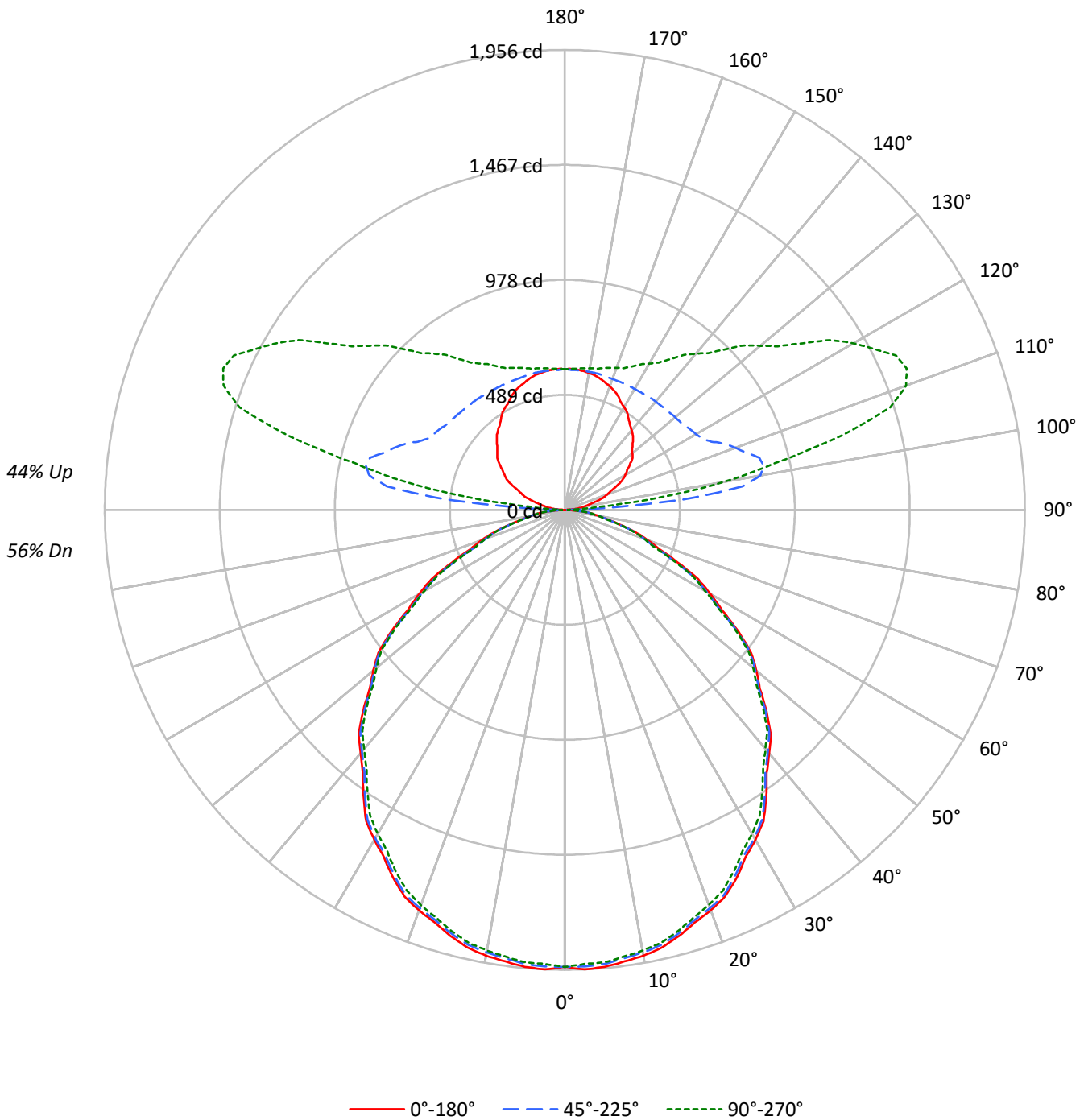
Lumens per Lamp: N/A
Luminaire Lumens: 8878.9 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12024	11939	11886
15°	11945	11880	11815
20°	11866	11799	11709
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10477	10374
50°	10173	10108	10010
55°	9647	9519	9445
60°	8782	8530	8488
65°	7737	7414	7389
70°	6679	6404	6404
75°	5749	5668	5587
80°	5069	5129	5009
85°	3966	4326	4326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	2.1
10°-20°	524.9	5.9
20°-30°	786.2	8.9
30°-40°	922.2	10.4
40°-50°	925.0	10.4
50°-60°	789.1	8.9
60°-70°	514.7	5.8
70°-80°	258.2	2.9
80°-90°	73.0	0.8
90°-100°	282.5	3.2
100°-110°	777.2	8.8
110°-120°	802.2	9.0
120°-130°	642.7	7.2
130°-140°	504.8	5.7
140°-150°	386.9	4.4
150°-160°	278.2	3.1
160°-170°	170.1	1.9
170°-180°	57.3	0.6
0°-30°	1494.9	16.8
0°-40°	2417.0	27.2
0°-60°	4131.2	46.5
0°-90°	4977.0	56.1
90°-120°	1861.9	21.0
90°-150°	3396.4	38.3
90°-180°	3902.0	43.9
0°-180°	8878.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1951	1932	1939	1932	1932	185
15°	1876	1858	1866	1859	1855	529
25°	1728	1708	1716	1700	1699	794
35°	1492	1478	1482	1465	1464	932
45°	1213	1205	1204	1193	1193	934
55°	900	896	888	882	881	799
65°	532	522	509	506	508	531
75°	242	242	238	237	235	262
85°	56	61	61	61	61	66
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°	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	1956.2	1940.2	1944.0	1941.1	1933.1
5°	1950.8	1932.5	1938.9	1932.0	1932.0
7.5°	1937.5	1917.5	1923.9	1917.0	1916.7
10°	1925.2	1905.2	1911.6	1904.8	1903.1
12.5°	1907.5	1887.5	1895.2	1887.1	1886.7
15°	1875.8	1857.5	1865.6	1858.7	1855.4
17.5°	1840.0	1820.1	1829.8	1820.3	1818.9
20°	1812.8	1792.8	1802.6	1788.9	1788.9
22.5°	1780.1	1760.1	1771.2	1753.5	1753.5
25°	1727.6	1707.6	1715.7	1700.3	1698.6
27.5°	1665.2	1645.6	1654.0	1636.6	1636.3
30°	1620.3	1601.9	1611.7	1593.0	1591.3
32.5°	1571.2	1554.2	1561.3	1542.5	1540.9
35°	1492.5	1477.5	1482.3	1465.2	1463.5
37.5°	1409.7	1394.4	1399.8	1385.1	1384.5
40°	1351.1	1341.1	1342.6	1330.6	1327.2
42.5°	1296.6	1285.2	1286.7	1274.7	1274.1
45°	1213.1	1204.7	1204.5	1192.6	1192.6
47.5°	1124.5	1118.1	1116.3	1106.4	1106.1
50°	1063.1	1058.1	1056.3	1047.8	1046.1
52.5°	999.1	996.7	990.9	983.7	983.4
55°	899.6	896.2	887.7	882.5	880.8
57.5°	791.6	784.9	775.2	767.7	769.1
60°	713.9	707.2	693.4	690.0	690.0
62.5°	638.9	630.9	617.1	612.4	615.1
65°	531.6	521.6	509.4	506.1	507.7
67.5°	434.1	425.1	412.0	411.9	410.6
70°	371.4	366.4	356.1	356.1	356.1
72.5°	315.5	313.2	305.7	305.6	304.3
75°	241.9	241.9	238.5	236.8	235.1
77.5°	181.3	181.9	180.3	178.5	175.5
80°	143.1	146.4	144.8	143.1	141.4
82.5°	107.7	111.0	110.7	107.7	107.3
85°	56.2	61.2	61.3	61.3	61.3
87.5°	15.2	21.3	23.6	24.1	25.5
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)