

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: P563760

Luminaire Tested: **SQ4-PP3-150U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563760
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-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

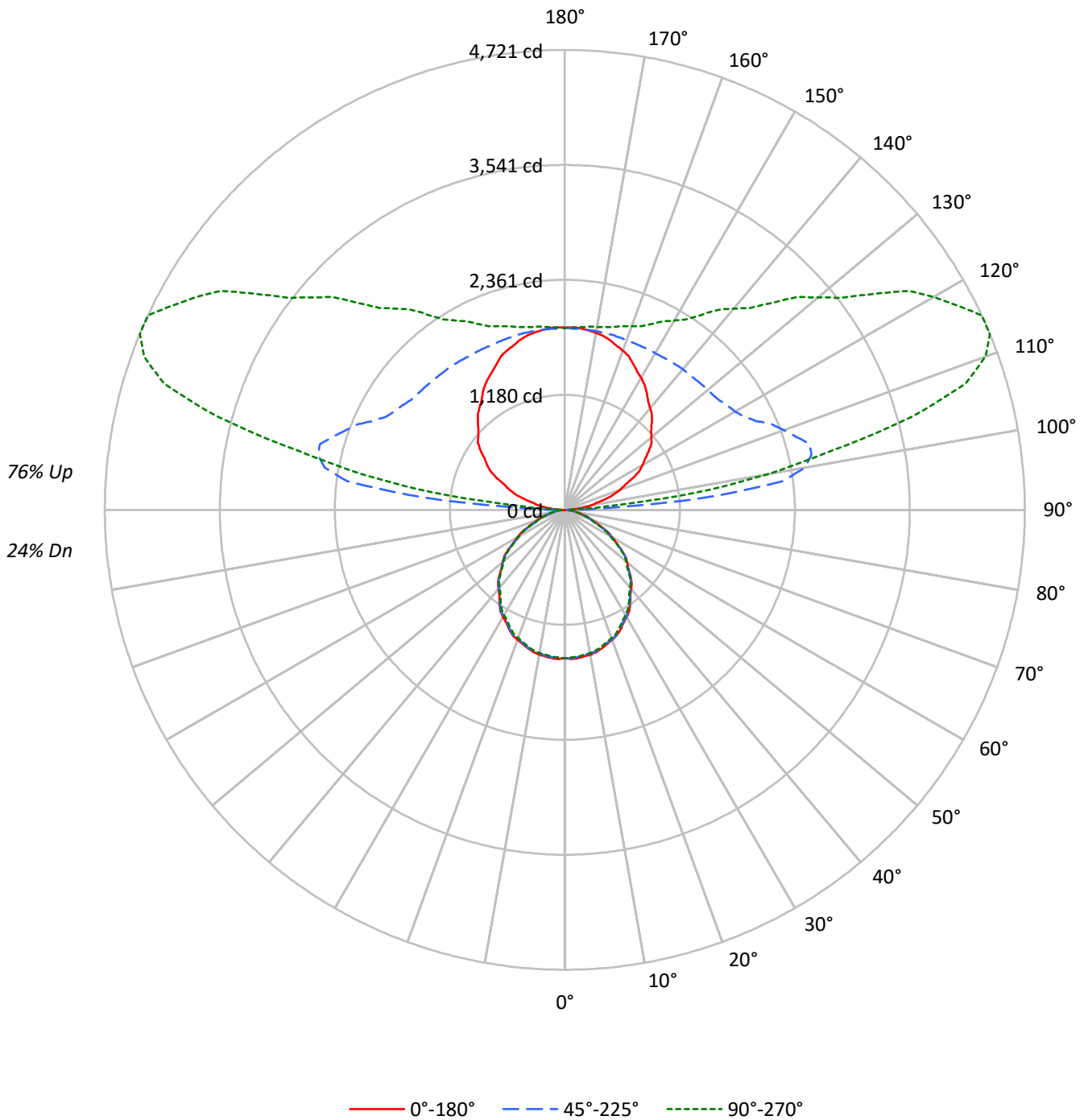
Lumens per Lamp: N/A
Luminaire Lumens: 15950.5 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 111.9
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	18
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7010
10°	7067	7017	6985
15°	7020	6981	6943
20°	6973	6934	6882
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5978	5940	5883
55°	5669	5594	5551
60°	5161	5014	4989
65°	4546	4357	4342
70°	3925	3763	3763
75°	3379	3331	3283
80°	2978	3015	2943
85°	2334	2546	2546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	0.9
10°-20°	411.3	2.6
20°-30°	616.0	3.9
30°-40°	722.6	4.5
40°-50°	724.8	4.5
50°-60°	618.3	3.9
60°-70°	403.3	2.5
70°-80°	202.3	1.3
80°-90°	59.9	0.4
90°-100°	868.4	5.4
100°-110°	2348.1	14.7
110°-120°	2468.6	15.5
120°-130°	2005.2	12.6
130°-140°	1572.9	9.9
140°-150°	1207.2	7.6
150°-160°	868.2	5.4
160°-170°	530.4	3.3
170°-180°	178.8	1.1
0°-30°	1171.3	7.3
0°-40°	1893.9	11.9
0°-60°	3237.1	20.3
0°-90°	3902.6	24.5
90°-120°	5685.1	35.6
90°-150°	10470.5	65.6
90°-180°	12048.0	75.5
0°-180°	15950.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1529	1514	1519	1514	1514	145
15°	1470	1456	1462	1456	1454	415
25°	1354	1338	1344	1332	1331	622
35°	1170	1158	1162	1148	1147	731
45°	950	944	944	934	934	732
55°	705	702	696	692	690	626
65°	416	409	399	396	398	416
75°	190	190	187	186	184	206
85°	44	48	48	48	48	52
90°	4	12	26	28	26	11
95°	135	473	1444	747	444	141
105°	436	674	2605	3842	3685	460
115°	768	940	2160	4182	4721	759
125°	1052	1205	1947	3286	3860	938
135°	1261	1411	1895	2653	3003	975
145°	1466	1576	1869	2271	2444	917
155°	1655	1720	1853	2037	2104	764
165°	1802	1820	1861	1933	1943	508
175°	1871	1869	1863	1887	1883	178
180°	1869	1869	1869	1869	1869	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.3	1523.3	1523.3	1523.3	1523.3
2.5°	1532.9	1520.3	1523.3	1521.0	1514.7
5°	1528.6	1514.2	1519.2	1513.9	1513.9
7.5°	1518.2	1502.5	1507.5	1502.2	1501.9
10°	1508.6	1492.9	1497.9	1492.5	1491.2
12.5°	1494.7	1479.0	1485.1	1478.7	1478.4
15°	1469.9	1455.5	1461.8	1456.4	1453.8
17.5°	1441.8	1426.2	1433.8	1426.3	1425.3
20°	1420.5	1404.8	1412.4	1401.8	1401.8
22.5°	1394.8	1379.2	1387.9	1374.0	1374.0
25°	1353.7	1338.0	1344.4	1332.3	1331.0
27.5°	1304.8	1289.4	1296.0	1282.4	1282.1
30°	1269.6	1255.2	1262.9	1248.2	1246.9
32.5°	1231.2	1217.8	1223.4	1208.7	1207.4
35°	1169.5	1157.7	1161.5	1148.1	1146.8
37.5°	1104.6	1092.6	1096.8	1085.4	1084.8
40°	1058.7	1050.8	1052.0	1042.6	1040.0
42.5°	1015.9	1007.1	1008.2	998.8	998.3
45°	950.5	944.0	943.9	934.5	934.5
47.5°	881.1	876.1	874.7	867.0	866.7
50°	833.0	829.1	827.7	821.0	819.7
52.5°	782.9	781.0	776.4	770.8	770.6
55°	704.9	702.3	695.5	691.5	690.2
57.5°	620.2	615.0	607.4	601.6	602.6
60°	559.4	554.2	543.4	540.7	540.7
62.5°	500.6	494.4	483.5	479.9	481.9
65°	416.5	408.7	399.2	396.5	397.8
67.5°	340.2	333.1	322.8	322.8	321.7
70°	291.0	287.1	279.0	279.0	279.0
72.5°	247.2	245.4	239.5	239.5	238.4
75°	189.6	189.6	186.9	185.5	184.2
77.5°	142.0	142.6	141.2	139.9	137.5
80°	112.1	114.8	113.5	112.1	110.8
82.5°	84.4	87.0	86.8	84.4	84.1
85°	44.1	48.0	48.1	48.1	48.1
87.5°	12.6	18.3	22.3	22.7	23.4
90°	4.0	11.9	26.1	28.1	26.1
92.5°	57.1	208.2	410.7	178.3	129.1
95°	134.8	473.1	1444.2	747.4	444.5
97.5°	216.4	542.5	2251.2	1863.0	1368.2
100°	277.6	570.6	2502.3	2609.6	2110.0
102.5°	333.9	609.6	2590.8	3175.7	2802.0
105°	436.5	674.5	2604.9	3842.4	3685.0
107.5°	531.4	748.6	2491.0	4258.3	4310.6
110°	605.5	802.1	2389.6	4369.9	4592.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	671.4	855.5	2296.3	4347.6	4720.9
115°	768.4	939.5	2160.3	4182.0	4720.9
117.5°	863.3	1023.8	2070.6	3929.0	4539.9
120°	921.3	1078.6	2017.5	3747.5	4370.9
122.5°	976.0	1130.2	1985.3	3552.9	4181.0
125°	1052.0	1205.4	1947.1	3285.7	3860.0
127.5°	1122.0	1272.7	1924.6	3067.7	3572.8
130°	1160.6	1316.0	1914.9	2933.0	3389.3
132.5°	1200.8	1354.6	1905.3	2811.5	3231.6
135°	1261.2	1410.7	1894.8	2653.0	3003.1
137.5°	1321.9	1463.2	1886.0	2524.4	2809.6
140°	1363.8	1495.5	1882.7	2441.7	2695.4
142.5°	1404.0	1527.9	1876.3	2366.9	2589.2
145°	1466.4	1576.5	1868.7	2270.9	2443.9
147.5°	1523.1	1620.6	1859.8	2183.9	2316.8
150°	1564.9	1651.5	1856.6	2136.6	2242.8
152.5°	1603.5	1679.1	1855.0	2092.7	2180.0
155°	1655.4	1720.3	1852.6	2037.1	2104.0
157.5°	1709.3	1754.6	1853.0	1998.4	2042.4
160°	1739.9	1777.3	1854.6	1974.0	2005.4
162.5°	1764.1	1795.1	1856.2	1954.5	1978.1
165°	1802.3	1820.0	1860.6	1933.2	1943.1
167.5°	1828.4	1840.6	1861.0	1915.0	1919.7
170°	1844.5	1850.4	1862.6	1906.9	1906.9
172.5°	1857.4	1858.6	1862.6	1897.2	1895.6
175°	1870.7	1868.7	1862.6	1886.7	1882.7
177.5°	1875.1	1870.4	1862.2	1878.2	1873.5
180°	1868.7	1868.7	1868.7	1868.7	1868.7

(END OF REPORT)