

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: P563832

Luminaire Tested: **SQ4-PP3-150U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563832
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-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

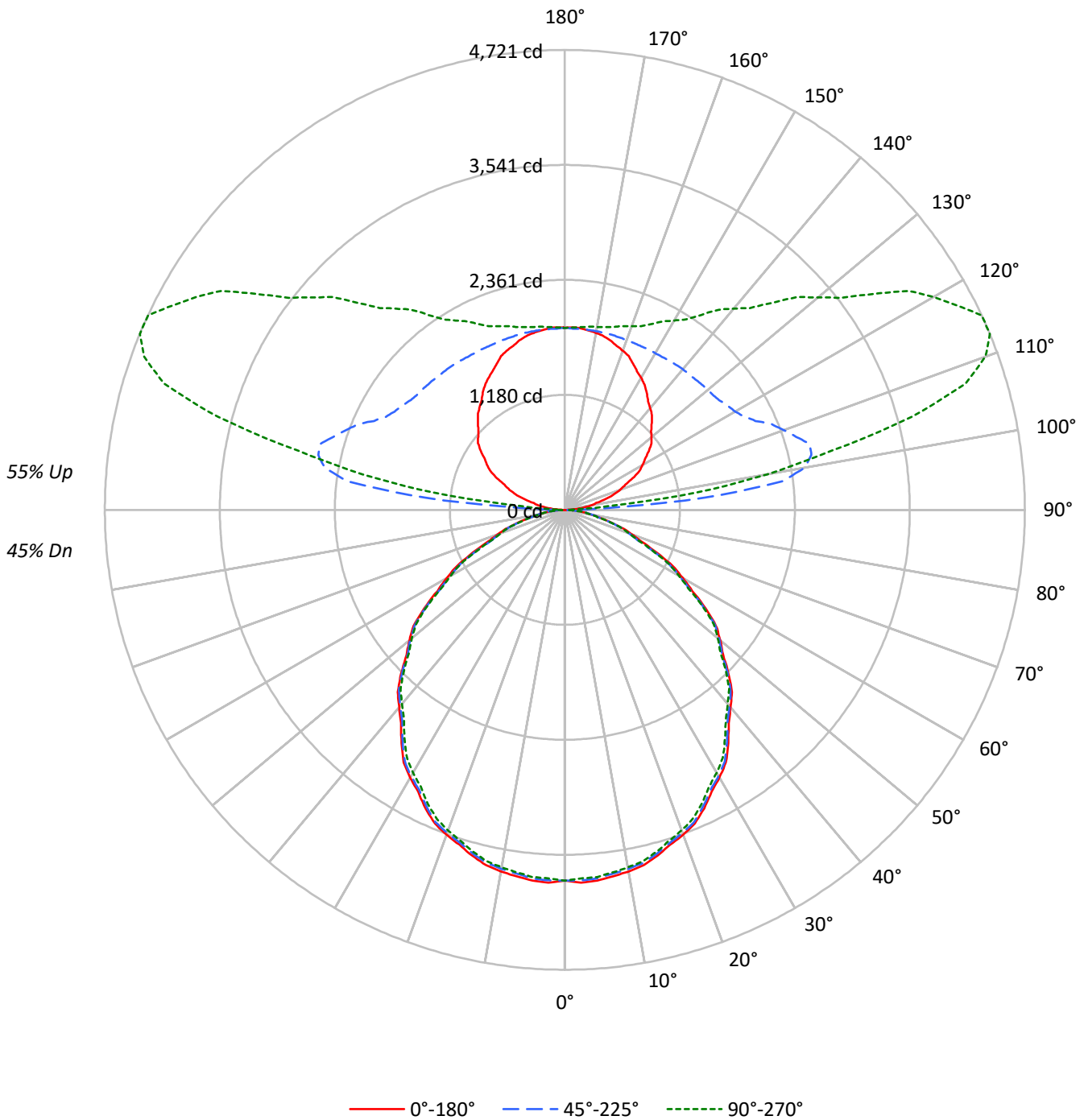
Lumens per Lamp: N/A
Luminaire Lumens: 21795.1 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 167.8
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°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17543	17448	17352
20°	17427	17329	17198
25°	17220	17101	16931
30°	16901	16812	16599
35°	16459	16346	16139
40°	15932	15832	15651
45°	15498	15389	15237
50°	14941	14845	14701
55°	14168	13980	13873
60°	12897	12528	12466
65°	11362	10889	10852
70°	9810	9405	9405
75°	8445	8325	8206
80°	7446	7534	7356
85°	5828	6357	6357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.0	1.7
10°-20°	1027.8	4.7
20°-30°	1539.5	7.1
30°-40°	1805.8	8.3
40°-50°	1811.5	8.3
50°-60°	1545.3	7.1
60°-70°	1007.8	4.6
70°-80°	505.6	2.3
80°-90°	143.8	0.7
90°-100°	868.4	4.0
100°-110°	2348.1	10.8
110°-120°	2468.6	11.3
120°-130°	2005.2	9.2
130°-140°	1572.9	7.2
140°-150°	1207.2	5.5
150°-160°	868.2	4.0
160°-170°	530.4	2.4
170°-180°	178.8	0.8
0°-30°	2927.3	13.4
0°-40°	4733.2	21.7
0°-60°	8089.9	37.1
0°-90°	9747.2	44.7
90°-120°	5685.1	26.1
90°-150°	10470.5	48.0
90°-180°	12048.0	55.3
0°-180°	21795.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3807	3807	3807	3807	3807	
5°	3820	3784	3797	3783	3783	363
15°	3673	3638	3653	3640	3633	1036
25°	3383	3344	3360	3330	3326	1556
35°	2923	2893	2903	2869	2866	1826
45°	2376	2359	2359	2336	2336	1829
55°	1762	1755	1738	1728	1725	1566
65°	1041	1021	998	991	994	1039
75°	474	474	467	464	460	514
85°	110	120	120	120	120	129
90°	4	12	26	28	26	13
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°	3806.8	3806.8	3806.8	3806.8	3806.8
2.5°	3830.8	3799.5	3806.8	3801.1	3785.4
5°	3820.1	3784.3	3796.8	3783.4	3783.4
7.5°	3794.1	3755.0	3767.4	3754.1	3753.4
10°	3770.1	3730.9	3743.4	3730.0	3726.7
12.5°	3735.4	3696.2	3711.4	3695.3	3694.7
15°	3673.3	3637.5	3653.3	3639.8	3633.3
17.5°	3603.3	3564.1	3583.3	3564.5	3561.9
20°	3549.9	3510.7	3529.9	3503.2	3503.2
22.5°	3485.8	3446.7	3468.5	3433.8	3433.8
25°	3383.1	3343.9	3359.7	3329.6	3326.4
27.5°	3261.0	3222.5	3238.9	3204.9	3204.2
30°	3172.9	3137.0	3156.2	3119.4	3116.2
32.5°	3076.8	3043.5	3057.4	3020.7	3017.4
35°	2922.7	2893.3	2902.6	2869.2	2865.9
37.5°	2760.5	2730.5	2741.2	2712.4	2711.1
40°	2645.7	2626.2	2629.1	2605.6	2599.0
42.5°	2539.0	2516.8	2519.6	2496.2	2494.9
45°	2375.5	2359.2	2358.8	2335.5	2335.5
47.5°	2202.0	2189.6	2186.0	2166.6	2166.0
50°	2081.9	2072.1	2068.5	2051.8	2048.5
52.5°	1956.4	1951.9	1940.4	1926.4	1925.8
55°	1761.6	1755.1	1738.2	1728.2	1724.9
57.5°	1550.1	1537.0	1518.0	1503.4	1506.0
60°	1397.9	1384.9	1357.9	1351.2	1351.2
62.5°	1251.1	1235.5	1208.4	1199.2	1204.4
65°	1040.9	1021.4	997.6	991.0	994.2
67.5°	850.1	832.5	806.7	806.7	804.1
70°	727.3	717.5	697.3	697.3	697.3
72.5°	617.9	613.3	598.5	598.5	595.9
75°	473.8	473.8	467.1	463.7	460.4
77.5°	355.0	356.3	353.0	349.5	343.6
80°	280.3	286.8	283.6	280.2	276.9
82.5°	210.9	217.4	216.9	210.8	210.2
85°	110.1	119.9	120.1	120.1	120.1
87.5°	30.2	42.2	47.9	48.4	50.6
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)