

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: P564504

Luminaire Tested: **SQ4-PR1-150U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564504
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-125D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

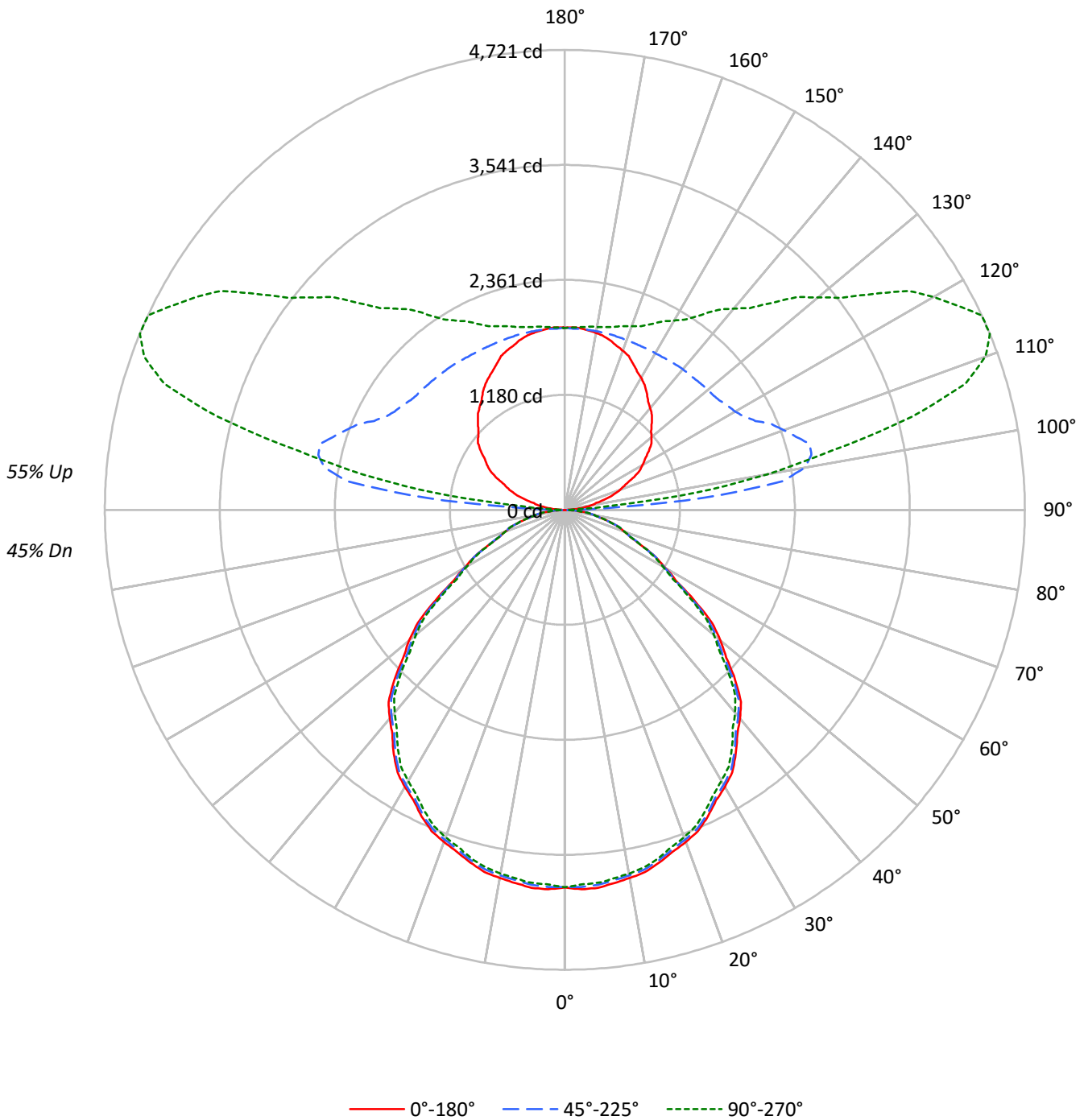
Lumens per Lamp: N/A
Luminaire Lumens: 21737.5 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	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	75	69	65	62	59	55	51	48	46	40	39	37	32				
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18				
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17787	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17119
35°	17234	17083	16839
40°	16840	16660	16358
45°	16155	15871	15545
50°	14945	14585	14298
55°	13044	12748	12481
60°	10992	10900	10684
65°	9507	9543	9471
70°	8732	8777	8777
75°	8386	8386	8447
80°	7890	7978	7890
85°	6357	7066	7066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	1.7
10°-20°	1048.3	4.8
20°-30°	1581.1	7.3
30°-40°	1883.9	8.7
40°-50°	1857.4	8.5
50°-60°	1419.5	6.5
60°-70°	878.4	4.0
70°-80°	498.9	2.3
80°-90°	155.7	0.7
90°-100°	868.4	4.0
100°-110°	2348.1	10.8
110°-120°	2468.6	11.4
120°-130°	2005.2	9.2
130°-140°	1572.9	7.2
140°-150°	1207.2	5.6
150°-160°	868.2	4.0
160°-170°	530.4	2.4
170°-180°	178.8	0.8
0°-30°	2995.8	13.8
0°-40°	4879.7	22.4
0°-60°	8156.5	37.5
0°-90°	9689.5	44.6
90°-120°	5685.1	26.2
90°-150°	10470.5	48.2
90°-180°	12048.0	55.4
0°-180°	21737.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3874	3874	3874	3874	3874	
5°	3894	3852	3864	3851	3844	369
15°	3748	3708	3724	3711	3704	1058
25°	3474	3432	3451	3414	3411	1599
35°	3060	3024	3034	2993	2990	1910
45°	2476	2444	2433	2389	2383	1897
55°	1622	1596	1585	1558	1552	1453
65°	871	864	874	868	868	882
75°	470	470	470	474	474	497
85°	120	127	134	134	134	140
90°	4	12	26	28	26	14
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°	3874.4	3874.4	3874.4	3874.4	3874.4
2.5°	3898.5	3864.5	3874.4	3866.0	3847.7
5°	3894.5	3852.0	3864.4	3850.9	3844.4
7.5°	3864.4	3822.7	3835.1	3821.6	3817.7
10°	3837.7	3798.6	3811.0	3797.5	3791.0
12.5°	3808.4	3766.6	3781.7	3765.5	3759.0
15°	3747.6	3708.5	3724.3	3710.8	3704.2
17.5°	3680.9	3639.1	3654.8	3639.3	3630.8
20°	3627.5	3588.3	3604.1	3580.7	3577.4
22.5°	3568.7	3529.6	3545.4	3514.0	3513.4
25°	3474.0	3431.6	3450.6	3413.8	3410.6
27.5°	3361.2	3322.0	3337.8	3300.4	3296.4
30°	3283.8	3244.6	3260.4	3220.2	3213.7
32.5°	3195.7	3159.1	3172.3	3132.2	3128.2
35°	3060.2	3024.3	3033.5	2993.3	2990.1
37.5°	2906.0	2873.4	2878.6	2834.5	2831.2
40°	2796.5	2763.9	2766.5	2719.7	2716.4
42.5°	2676.4	2643.8	2641.0	2594.2	2591.0
45°	2476.2	2443.5	2432.8	2389.3	2382.7
47.5°	2247.9	2215.3	2195.2	2159.7	2155.1
50°	2082.4	2049.8	2032.3	2002.1	1992.3
52.5°	1903.5	1870.9	1856.1	1828.5	1818.7
55°	1621.9	1595.8	1585.1	1558.3	1551.8
57.5°	1354.2	1336.6	1333.5	1307.4	1304.8
60°	1191.4	1181.6	1181.4	1158.0	1158.0
62.5°	1052.5	1045.4	1050.5	1035.1	1032.5
65°	871.0	864.5	874.3	867.7	867.7
67.5°	727.5	727.5	733.5	730.8	730.8
70°	647.4	647.4	650.7	650.7	650.7
72.5°	575.3	572.7	581.3	581.3	578.7
75°	470.5	470.5	470.5	473.9	473.9
77.5°	366.4	367.1	369.8	369.0	366.4
80°	297.0	300.3	300.3	297.0	297.0
82.5°	227.6	230.9	230.9	230.2	227.6
85°	120.1	126.7	133.5	133.5	133.5
87.5°	35.5	47.5	58.6	59.0	56.0
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)