

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: P519626

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519626
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-125D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

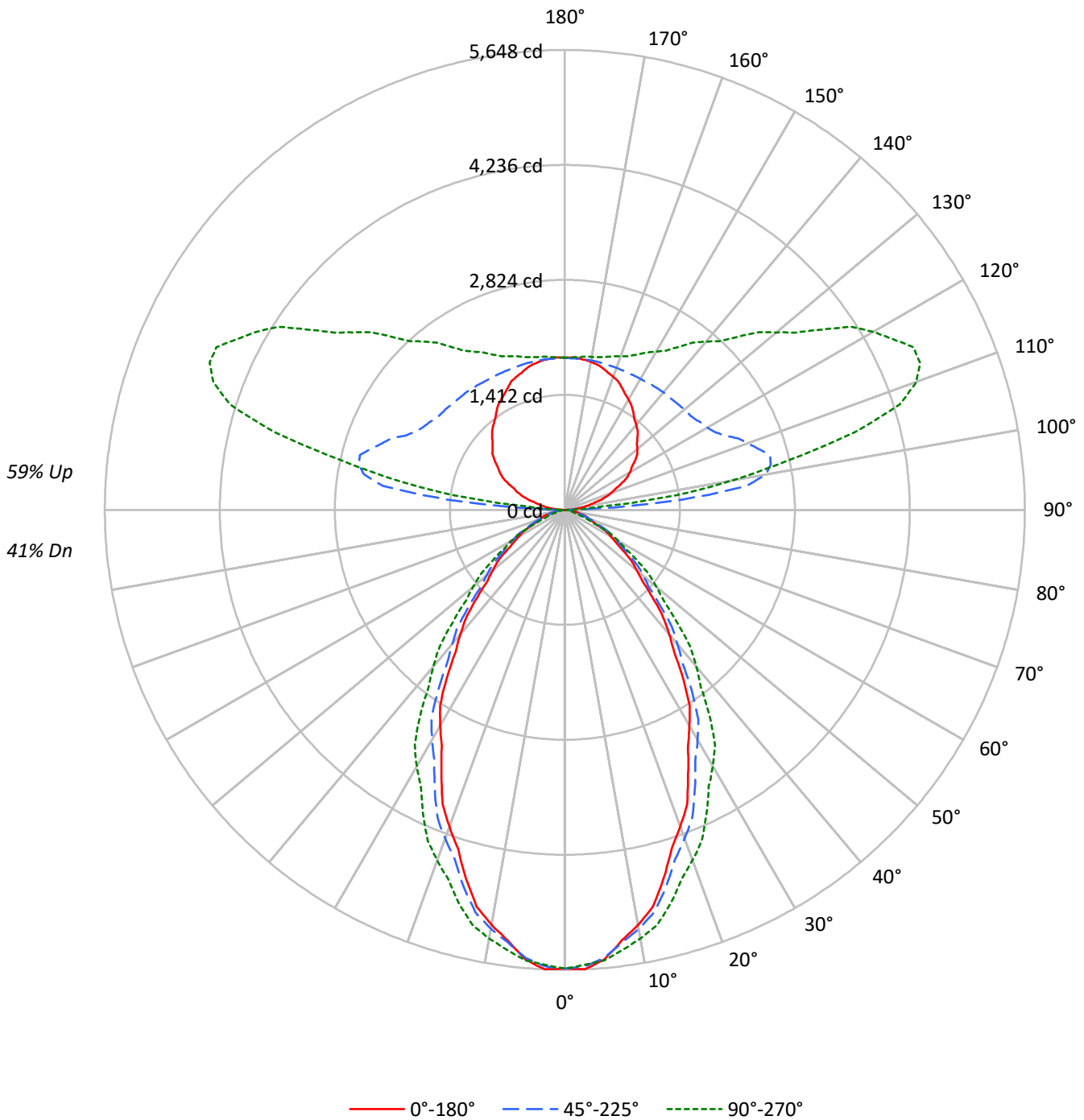
Lumens per Lamp: N/A
Luminaire Lumens: 20261.7 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	36
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	32
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	28
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	25
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	22
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	20
7	59	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	18
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	17
9	52	40	33	28	47	37	31	27	32	27	24	27	23	21	22	19	18	15
10	48	37	30	26	44	34	28	24	30	25	22	25	21	19	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25991	25991	25991
5°	25666	25575	25724
10°	24249	24469	25036
15°	22385	22905	23932
20°	20328	21093	22488
25°	18233	19227	20951
30°	16303	17369	19358
35°	14256	15287	17472
40°	11999	12952	15125
45°	9903	10757	12628
50°	8268	9013	10521
55°	7019	7735	8689
60°	5999	6706	6933
65°	4777	5640	4480
70°	4235	4401	2734
75°	3921	3568	1674
80°	3613	3284	1445
85°	3271	3012	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.8	2.6
10°-20°	1344.2	6.6
20°-30°	1741.1	8.6
30°-40°	1704.9	8.4
40°-50°	1305.0	6.4
50°-60°	869.6	4.3
60°-70°	474.5	2.3
70°-80°	197.7	1.0
80°-90°	59.9	0.3
90°-100°	868.4	4.3
100°-110°	2348.1	11.6
110°-120°	2468.6	12.2
120°-130°	2005.2	9.9
130°-140°	1572.9	7.8
140°-150°	1207.2	6.0
150°-160°	868.2	4.3
160°-170°	530.4	2.6
170°-180°	178.8	0.9
0°-30°	3602.0	17.8
0°-40°	5307.0	26.2
0°-60°	7481.6	36.9
0°-90°	8213.8	40.5
90°-120°	5685.1	28.1
90°-150°	10470.5	51.7
90°-180°	12048.0	59.5
0°-180°	20261.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5634	5634	5634	5634	5634	
5°	5543	5487	5523	5536	5555	516
15°	4687	4670	4796	4926	5011	1309
25°	3582	3592	3778	3942	4116	1647
35°	2532	2544	2714	2897	3103	1574
45°	1518	1547	1649	1774	1936	1184
55°	873	909	962	998	1080	791
65°	438	474	517	452	410	455
75°	220	220	200	138	94	235
85°	62	62	57	37	22	67
90°	4	12	26	28	26	12
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°	5634.1	5634.1	5634.1	5634.1	5634.1
2.5°	5647.9	5597.7	5610.4	5610.0	5594.5
5°	5542.6	5487.0	5522.8	5535.6	5555.0
7.5°	5336.9	5294.9	5360.2	5408.5	5447.7
10°	5176.7	5140.5	5223.7	5294.1	5344.8
12.5°	4990.8	4960.4	5063.5	5158.0	5224.2
15°	4687.2	4670.3	4796.0	4926.5	5011.1
17.5°	4362.4	4354.2	4498.4	4650.6	4758.9
20°	4140.9	4138.5	4296.6	4455.2	4580.9
22.5°	3917.4	3922.7	4089.0	4253.9	4397.0
25°	3582.2	3591.9	3777.5	3942.1	4116.2
27.5°	3272.2	3276.5	3468.5	3642.3	3827.9
30°	3060.6	3072.6	3260.8	3440.7	3634.1
32.5°	2848.9	2863.0	3047.2	3233.1	3430.4
35°	2531.5	2543.6	2714.5	2897.1	3102.6
37.5°	2204.2	2220.6	2372.3	2545.0	2747.1
40°	1992.6	2016.7	2150.8	2313.5	2511.7
42.5°	1788.9	1818.8	1943.1	2097.5	2276.4
45°	1517.9	1546.9	1648.9	1773.8	1935.7
47.5°	1284.5	1317.9	1396.3	1503.8	1642.0
50°	1152.0	1183.5	1255.9	1335.5	1466.0
52.5°	1035.3	1066.8	1131.3	1192.6	1303.8
55°	872.7	908.9	961.7	998.2	1080.3
57.5°	739.2	774.0	815.8	832.3	882.1
60°	650.2	688.9	726.8	725.0	751.5
62.5°	569.1	602.0	639.8	613.6	615.1
65°	437.6	473.8	516.7	451.5	410.4
67.5°	353.5	361.3	405.4	314.8	266.0
70°	314.0	314.0	326.3	243.8	202.7
72.5°	276.4	276.4	265.0	198.3	155.3
75°	220.0	220.0	200.2	137.5	93.9
77.5°	169.6	167.7	153.3	102.6	68.2
80°	136.0	136.0	123.6	81.0	54.4
82.5°	106.3	106.3	95.9	63.3	40.5
85°	61.8	61.8	56.9	36.8	22.2
87.5°	22.6	24.1	25.0	17.4	15.1
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)