

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: P519508

Luminaire Tested: **SQ4-WB-125U-100D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519508
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-100D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

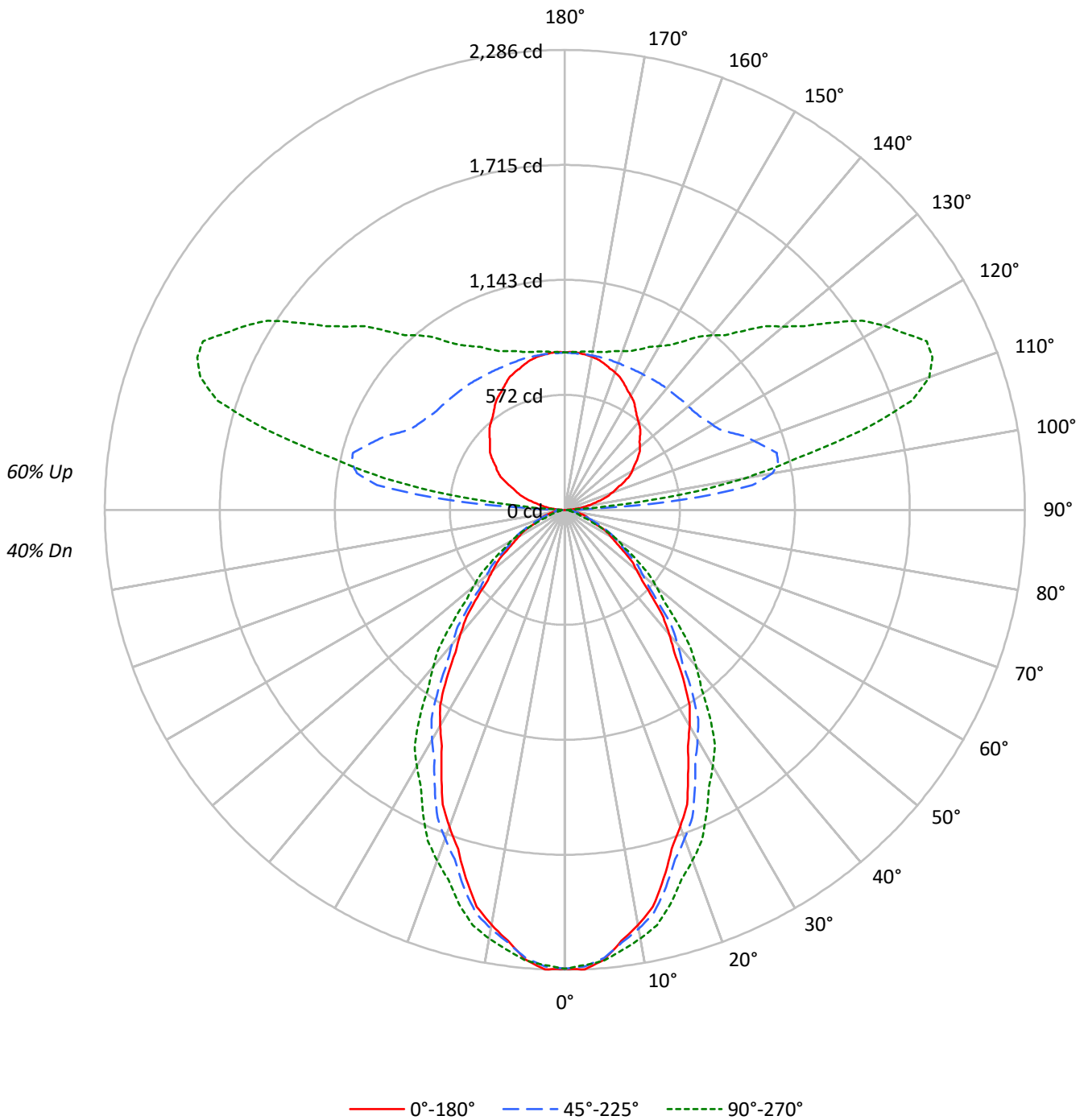
Lumens per Lamp: N/A
Luminaire Lumens: 8374.9 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 64.5
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40				
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35				
2	88	82	76	72	80	75	70	66	62	59	56	50	48	46	39	37	36	31				
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	27				
4	75	65	58	52	68	60	54	49	50	45	42	41	37	35	32	30	28	24				
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22				
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20				
7	59	48	40	35	54	44	38	33	37	33	29	31	27	25	25	23	21	18				
8	55	44	36	32	50	40	34	30	34	29	26	29	25	22	23	21	19	16				
9	52	40	33	28	47	37	31	27	32	27	24	26	23	20	22	19	17	15				
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21043	21043	21043
5°	20780	20706	20826
10°	19633	19811	20271
15°	18124	18545	19377
20°	16458	17078	18207
25°	14762	15567	16963
30°	13200	14063	15672
35°	11542	12377	14146
40°	9715	10487	12246
45°	8018	8709	10224
50°	6694	7297	8519
55°	5683	6262	7034
60°	4857	5429	5613
65°	3866	4567	3626
70°	3429	3563	2215
75°	3176	2891	1355
80°	2922	2657	1169
85°	2646	2435	953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	2.5
10°-20°	544.1	6.5
20°-30°	704.8	8.4
30°-40°	690.2	8.2
40°-50°	528.3	6.3
50°-60°	352.0	4.2
60°-70°	192.1	2.3
70°-80°	80.0	1.0
80°-90°	24.5	0.3
90°-100°	365.9	4.4
100°-110°	985.7	11.8
110°-120°	1034.5	12.4
120°-130°	839.4	10.0
130°-140°	658.3	7.9
140°-150°	505.4	6.0
150°-160°	363.4	4.3
160°-170°	222.0	2.7
170°-180°	74.9	0.9
0°-30°	1458.2	17.4
0°-40°	2148.4	25.7
0°-60°	3028.7	36.2
0°-90°	3325.3	39.7
90°-120°	2386.1	28.5
90°-150°	4389.3	52.4
90°-180°	5050.0	60.3
0°-180°	8374.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2281	2281	2281	2281	2281	
5°	2244	2221	2236	2241	2249	209
15°	1898	1891	1942	1994	2029	530
25°	1450	1454	1529	1596	1666	667
35°	1025	1030	1099	1173	1256	637
45°	614	626	668	718	784	479
55°	353	368	389	404	437	320
65°	177	192	209	183	166	184
75°	89	89	81	56	38	95
85°	25	25	23	15	9	27
90°	2	6	12	13	13	5
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1258	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2280.8	2280.8	2280.8	2280.8	2280.8
2.5°	2286.4	2266.0	2271.2	2271.0	2264.8
5°	2243.7	2221.2	2235.7	2240.9	2248.7
7.5°	2160.5	2143.5	2169.9	2189.5	2205.3
10°	2095.6	2080.9	2114.6	2143.1	2163.7
12.5°	2020.4	2008.0	2049.8	2088.0	2114.8
15°	1897.5	1890.6	1941.5	1994.3	2028.6
17.5°	1766.0	1762.6	1821.0	1882.7	1926.5
20°	1676.3	1675.3	1739.4	1803.6	1854.4
22.5°	1585.8	1588.0	1655.3	1722.1	1780.0
25°	1450.1	1454.0	1529.2	1595.8	1666.3
27.5°	1324.6	1326.4	1404.1	1474.5	1549.6
30°	1239.0	1243.9	1320.0	1392.9	1471.1
32.5°	1153.3	1159.0	1233.6	1308.8	1388.7
35°	1024.8	1029.7	1098.9	1172.8	1256.0
37.5°	892.3	898.9	960.3	1030.3	1112.1
40°	806.6	816.4	870.7	936.5	1016.8
42.5°	724.2	736.3	786.6	849.1	921.5
45°	614.5	626.2	667.5	718.0	783.6
47.5°	520.0	533.5	565.2	608.7	664.7
50°	466.4	479.1	508.4	540.6	593.5
52.5°	419.1	431.8	458.0	482.8	527.8
55°	353.3	368.0	389.3	404.1	437.3
57.5°	299.2	313.3	330.3	336.9	357.1
60°	263.2	278.9	294.2	293.5	304.2
62.5°	230.4	243.7	259.0	248.4	249.0
65°	177.1	191.8	209.2	182.8	166.1
67.5°	143.1	146.2	164.1	127.5	107.7
70°	127.1	127.1	132.1	98.7	82.1
72.5°	111.9	111.9	107.3	80.3	62.8
75°	89.1	89.1	81.1	55.6	38.0
77.5°	68.7	67.9	62.0	41.5	27.6
80°	55.0	55.0	50.0	32.8	22.0
82.5°	43.0	43.0	38.8	25.6	16.4
85°	25.0	25.0	23.0	14.9	9.0
87.5°	9.2	10.0	10.4	7.4	6.6
90°	2.0	5.9	12.0	13.0	13.0
92.5°	24.3	85.9	169.8	81.7	56.8
95°	55.8	199.0	599.9	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.8
102.5°	139.3	255.4	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.7	1784.8	1810.7
110°	250.1	335.8	1001.4	1832.6	1927.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.0	1977.3
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.4	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1750.0
125°	439.4	504.7	815.1	1377.6	1621.2
127.5°	468.7	533.0	805.1	1280.6	1498.1
130°	486.3	550.6	801.1	1225.0	1416.0
132.5°	503.8	567.3	797.2	1176.0	1351.4
135°	529.1	590.5	792.2	1111.4	1258.5
137.5°	553.2	612.1	789.6	1056.6	1177.4
140°	570.0	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.8	659.6	782.2	950.2	1020.4
147.5°	638.1	679.6	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	703.0	776.4	876.1	913.3
155°	694.5	719.9	775.2	852.6	879.9
157.5°	714.7	734.3	775.4	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.0
165°	753.3	762.1	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.7
170°	773.2	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.2	782.2	779.2	790.1	788.2
177.5°	785.4	783.8	779.8	786.2	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)