

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: P519541

Luminaire Tested: **SQ4-WB-125U-125D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519541
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-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

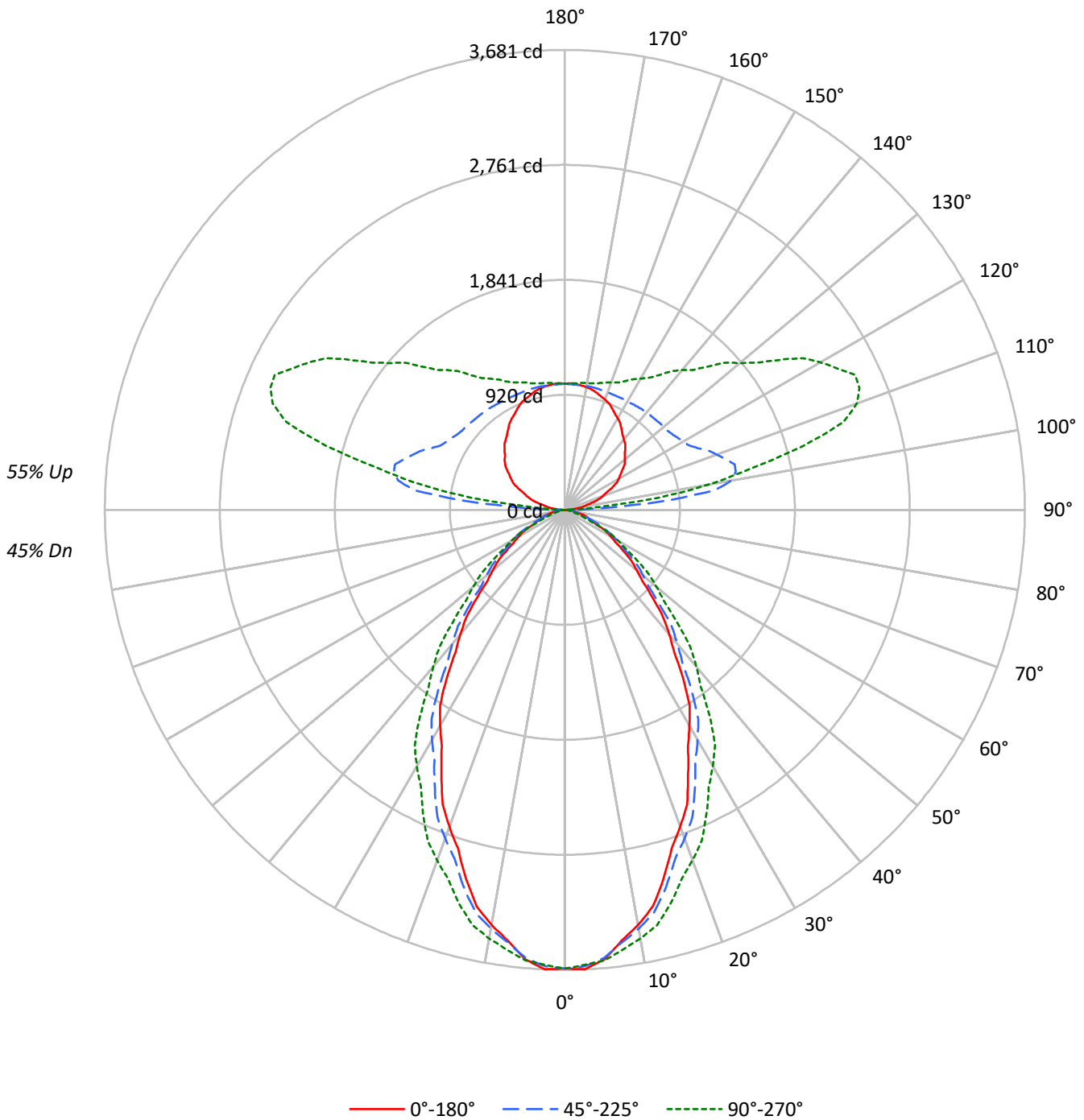
Lumens per Lamp: N/A
Luminaire Lumens: 11868.3 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 117.2
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	81	81	81	65	65	65	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	47	44	44	40	38	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	23
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22583	22583	22583
5°	22302	22222	22351
10°	21070	21261	21754
15°	19450	19902	20795
20°	17663	18328	19540
25°	15843	16707	18205
30°	14166	15092	16820
35°	12387	13282	15182
40°	10426	11254	13142
45°	8605	9347	10972
50°	7183	7831	9141
55°	6099	6720	7549
60°	5212	5826	6025
65°	4151	4900	3892
70°	3679	3825	2376
75°	3408	3101	1454
80°	3138	2855	1254
85°	2844	2618	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.8	2.8
10°-20°	876.0	7.4
20°-30°	1134.6	9.6
30°-40°	1111.1	9.4
40°-50°	850.5	7.2
50°-60°	566.7	4.8
60°-70°	309.2	2.6
70°-80°	128.9	1.1
80°-90°	38.9	0.3
90°-100°	472.2	4.0
100°-110°	1271.9	10.7
110°-120°	1334.8	11.2
120°-130°	1083.2	9.1
130°-140°	849.5	7.2
140°-150°	652.2	5.5
150°-160°	468.9	4.0
160°-170°	286.5	2.4
170°-180°	96.6	0.8
0°-30°	2347.3	19.8
0°-40°	3458.4	29.1
0°-60°	4875.6	41.1
0°-90°	5352.5	45.1
90°-120°	3078.9	25.9
90°-150°	5663.8	47.7
90°-180°	6516.0	54.9
0°-180°	11868.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3672	3672	3672	3672	3672	
5°	3612	3576	3599	3607	3620	336
15°	3054	3044	3125	3210	3266	853
25°	2334	2341	2462	2569	2682	1074
35°	1650	1658	1769	1888	2022	1026
45°	989	1008	1075	1156	1261	771
55°	569	592	627	650	704	516
65°	285	309	337	294	267	296
75°	143	143	130	90	61	153
85°	40	40	37	24	14	44
90°	3	8	15	17	17	7
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3671.6	3671.6	3671.6	3671.6	3671.6
2.5°	3680.6	3647.8	3656.1	3655.9	3645.8
5°	3612.0	3575.7	3599.1	3607.4	3620.0
7.5°	3477.9	3450.5	3493.1	3524.6	3550.1
10°	3373.5	3349.9	3404.1	3450.0	3483.1
12.5°	3252.4	3232.5	3299.7	3361.3	3404.5
15°	3054.5	3043.5	3125.4	3210.5	3265.6
17.5°	2842.8	2837.5	2931.5	3030.7	3101.3
20°	2698.5	2696.9	2800.0	2903.4	2985.3
22.5°	2552.9	2556.3	2664.7	2772.1	2865.4
25°	2334.4	2340.7	2461.7	2569.0	2682.4
27.5°	2132.4	2135.2	2260.3	2373.6	2494.5
30°	1994.5	2002.3	2125.0	2242.2	2368.2
32.5°	1856.6	1865.7	1985.8	2106.9	2235.5
35°	1649.7	1657.6	1768.9	1888.0	2021.9
37.5°	1436.4	1447.1	1546.0	1658.5	1790.2
40°	1298.5	1314.3	1401.6	1507.6	1636.8
42.5°	1165.8	1185.3	1266.3	1366.9	1483.4
45°	989.2	1008.1	1074.6	1155.9	1261.4
47.5°	837.1	858.8	909.9	980.0	1070.1
50°	750.7	771.2	818.4	870.3	955.3
52.5°	674.7	695.2	737.2	777.2	849.7
55°	568.7	592.3	626.7	650.5	704.0
57.5°	481.7	504.4	531.6	542.4	574.8
60°	423.7	448.9	473.6	472.4	489.8
62.5°	370.9	392.3	416.9	399.9	400.8
65°	285.2	308.8	336.7	294.2	267.4
67.5°	230.4	235.4	264.2	205.2	173.3
70°	204.6	204.6	212.7	158.9	132.1
72.5°	180.1	180.1	172.7	129.2	101.2
75°	143.4	143.4	130.5	89.6	61.2
77.5°	110.5	109.3	99.9	66.8	44.5
80°	88.6	88.6	80.6	52.8	35.4
82.5°	69.3	69.3	62.5	41.2	26.4
85°	40.3	40.3	37.1	24.0	14.5
87.5°	14.7	15.7	16.0	11.0	9.8
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)