

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: P519524

Luminaire Tested: **SQ4-WB-125U-125D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519524
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-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

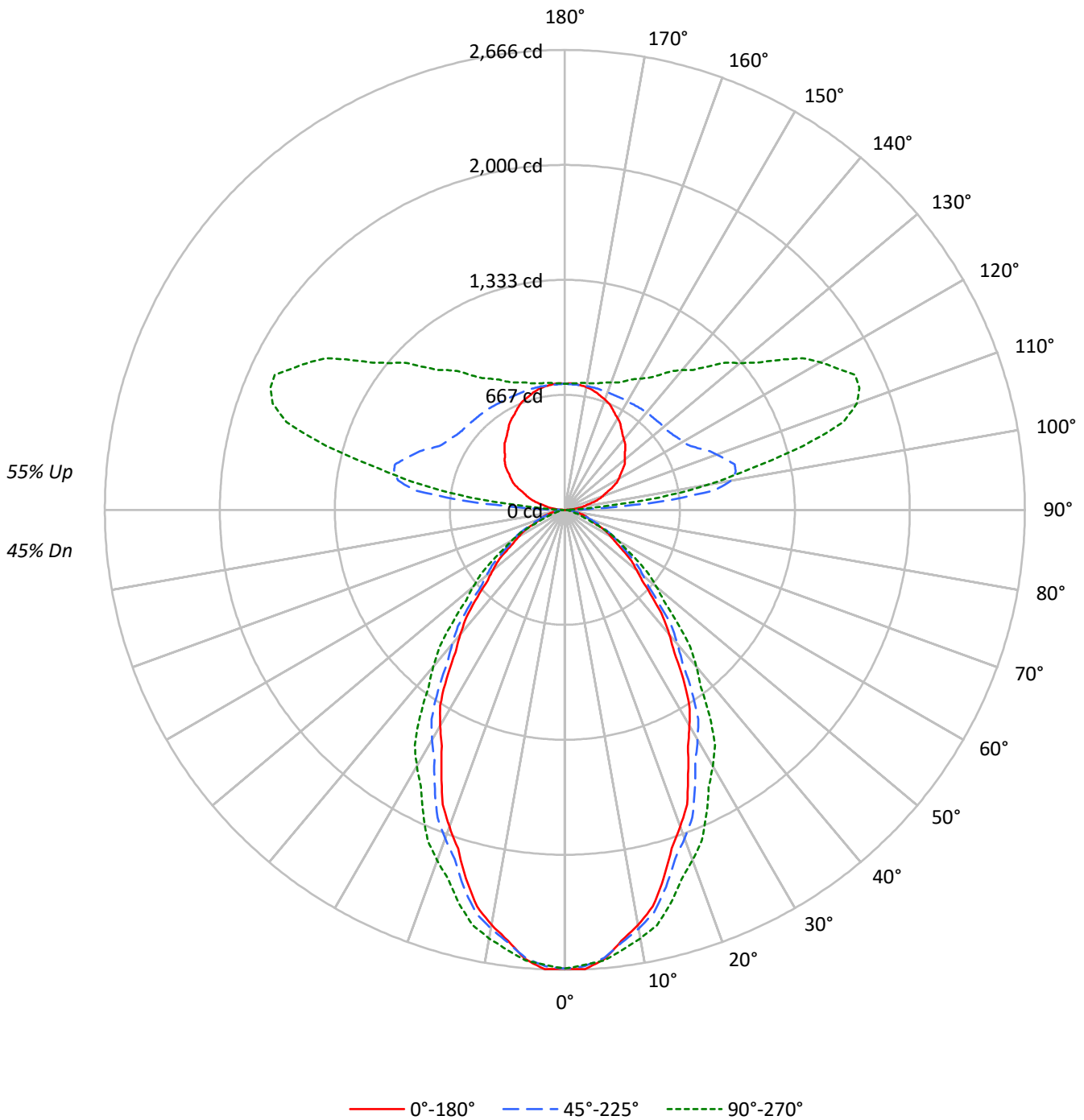
Lumens per Lamp: N/A
Luminaire Lumens: 8595.2 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 75.3
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°	24532	24532	24532
5°	24226	24140	24281
10°	22888	23096	23632
15°	21129	21620	22590
20°	19188	19910	21227
25°	17210	18149	19776
30°	15388	16395	18272
35°	13456	14429	16493
40°	11326	12226	14277
45°	9347	10154	11920
50°	7804	8507	9931
55°	6626	7301	8202
60°	5663	6329	6545
65°	4508	5322	4229
70°	3998	4154	2582
75°	3700	3369	1579
80°	3411	3098	1365
85°	3091	2837	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.9	2.8
10°-20°	634.4	7.4
20°-30°	821.7	9.6
30°-40°	804.6	9.4
40°-50°	615.9	7.2
50°-60°	410.4	4.8
60°-70°	224.0	2.6
70°-80°	93.3	1.1
80°-90°	28.1	0.3
90°-100°	342.0	4.0
100°-110°	921.1	10.7
110°-120°	966.7	11.2
120°-130°	784.4	9.1
130°-140°	615.2	7.2
140°-150°	472.3	5.5
150°-160°	339.6	4.0
160°-170°	207.5	2.4
170°-180°	70.0	0.8
0°-30°	1700.0	19.8
0°-40°	2504.6	29.1
0°-60°	3530.9	41.1
0°-90°	3876.4	45.1
90°-120°	2229.8	25.9
90°-150°	4101.8	47.7
90°-180°	4719.0	54.9
0°-180°	8595.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2659	2659	2659	2659	2659	
5°	2616	2590	2606	2612	2622	243
15°	2212	2204	2264	2325	2365	618
25°	1691	1695	1783	1860	1943	777
35°	1195	1200	1281	1367	1464	743
45°	716	730	778	837	914	559
55°	412	429	454	471	510	373
65°	206	224	244	213	194	215
75°	104	104	94	65	44	111
85°	29	29	27	17	10	32
90°	2	6	11	12	12	5
95°	52	186	561	287	198	54
105°	170	265	1019	1524	1430	179
115°	301	368	848	1639	1854	296
125°	411	472	762	1287	1515	367
135°	494	552	740	1039	1176	382
145°	572	616	731	888	954	359
155°	649	673	724	797	822	299
165°	704	712	727	756	760	199
175°	732	731	728	738	737	70
180°	731	731	731	731	731	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2659.0	2659.0	2659.0	2659.0	2659.0
2.5°	2665.5	2641.8	2647.8	2647.6	2640.3
5°	2615.8	2589.6	2606.5	2612.5	2621.7
7.5°	2518.7	2498.9	2529.7	2552.5	2571.0
10°	2443.1	2426.0	2465.3	2498.5	2522.5
12.5°	2355.4	2341.0	2389.7	2434.3	2465.5
15°	2212.1	2204.1	2263.5	2325.0	2365.0
17.5°	2058.8	2054.9	2123.0	2194.9	2246.0
20°	1954.3	1953.1	2027.8	2102.6	2162.0
22.5°	1848.8	1851.3	1929.8	2007.6	2075.2
25°	1690.6	1695.2	1782.8	1860.5	1942.6
27.5°	1544.3	1546.3	1636.9	1719.0	1806.6
30°	1444.4	1450.1	1538.9	1623.8	1715.1
32.5°	1344.5	1351.2	1438.1	1525.9	1619.0
35°	1194.7	1200.4	1281.1	1367.3	1464.3
37.5°	1040.3	1048.0	1119.6	1201.1	1296.5
40°	940.4	951.8	1015.1	1091.9	1185.4
42.5°	844.2	858.4	917.1	989.9	1074.3
45°	716.4	730.1	778.2	837.1	913.6
47.5°	606.2	622.0	659.0	709.7	774.9
50°	543.7	558.5	592.7	630.3	691.9
52.5°	488.6	503.5	533.9	562.9	615.3
55°	411.9	429.0	453.9	471.1	509.9
57.5°	348.9	365.3	385.0	392.8	416.3
60°	306.9	325.1	343.0	342.1	354.7
62.5°	268.6	284.1	302.0	289.6	290.3
65°	206.5	223.6	243.8	213.1	193.7
67.5°	166.8	170.5	191.3	148.6	125.5
70°	148.2	148.2	154.0	115.1	95.7
72.5°	130.4	130.4	125.1	93.6	73.3
75°	103.8	103.8	94.5	64.9	44.3
77.5°	80.0	79.1	72.3	48.4	32.2
80°	64.2	64.2	58.3	38.2	25.7
82.5°	50.2	50.2	45.3	29.9	19.1
85°	29.2	29.2	26.8	17.3	10.5
87.5°	10.6	11.4	11.6	8.0	7.1
90°	1.9	5.5	11.2	12.1	12.1
92.5°	22.7	80.3	158.7	76.4	53.1
95°	52.1	186.0	560.6	286.7	198.3
97.5°	83.2	212.9	879.2	734.5	553.9
100°	107.1	223.6	980.5	1025.9	851.1
102.5°	130.2	238.7	1014.0	1244.1	1100.6
105°	170.4	265.1	1018.7	1524.1	1430.3
107.5°	208.4	292.9	975.3	1667.9	1692.1
110°	233.7	313.8	935.8	1712.6	1800.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.5	334.8	897.8	1702.7	1847.8
115°	300.8	368.1	848.3	1639.1	1854.0
117.5°	337.5	400.6	809.9	1537.6	1776.9
120°	361.3	422.3	790.6	1464.7	1710.6
122.5°	382.2	442.4	776.4	1390.2	1635.3
125°	410.6	471.6	761.7	1287.4	1515.0
127.5°	438.0	498.1	752.4	1196.7	1399.9
130°	454.4	514.5	748.7	1144.7	1323.2
132.5°	470.8	530.2	744.9	1099.0	1262.9
135°	494.5	551.8	740.3	1038.6	1176.1
137.5°	517.0	572.0	737.9	987.4	1100.3
140°	532.6	585.4	735.6	955.8	1057.8
142.5°	549.0	598.2	734.1	926.4	1012.4
145°	571.7	616.4	731.0	888.0	953.5
147.5°	596.3	635.1	727.8	855.6	907.1
150°	612.7	646.4	726.3	835.3	878.1
152.5°	627.6	656.9	725.6	818.7	853.5
155°	649.0	672.7	724.4	796.7	822.2
157.5°	667.8	686.2	724.6	781.3	798.4
160°	679.8	695.2	725.4	772.2	785.0
162.5°	690.2	702.7	726.1	764.7	773.8
165°	704.0	712.2	727.2	756.2	759.8
167.5°	715.1	719.9	728.2	749.6	751.1
170°	722.6	724.4	728.2	745.9	745.9
172.5°	727.1	727.4	728.9	742.1	742.1
175°	731.9	731.0	728.2	738.4	736.6
177.5°	733.9	732.5	728.7	734.7	733.2
180°	731.0	731.0	731.0	731.0	731.0

(END OF REPORT)