

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: P519332

Luminaire Tested: **SQ4-WB-0U-125D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519332
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

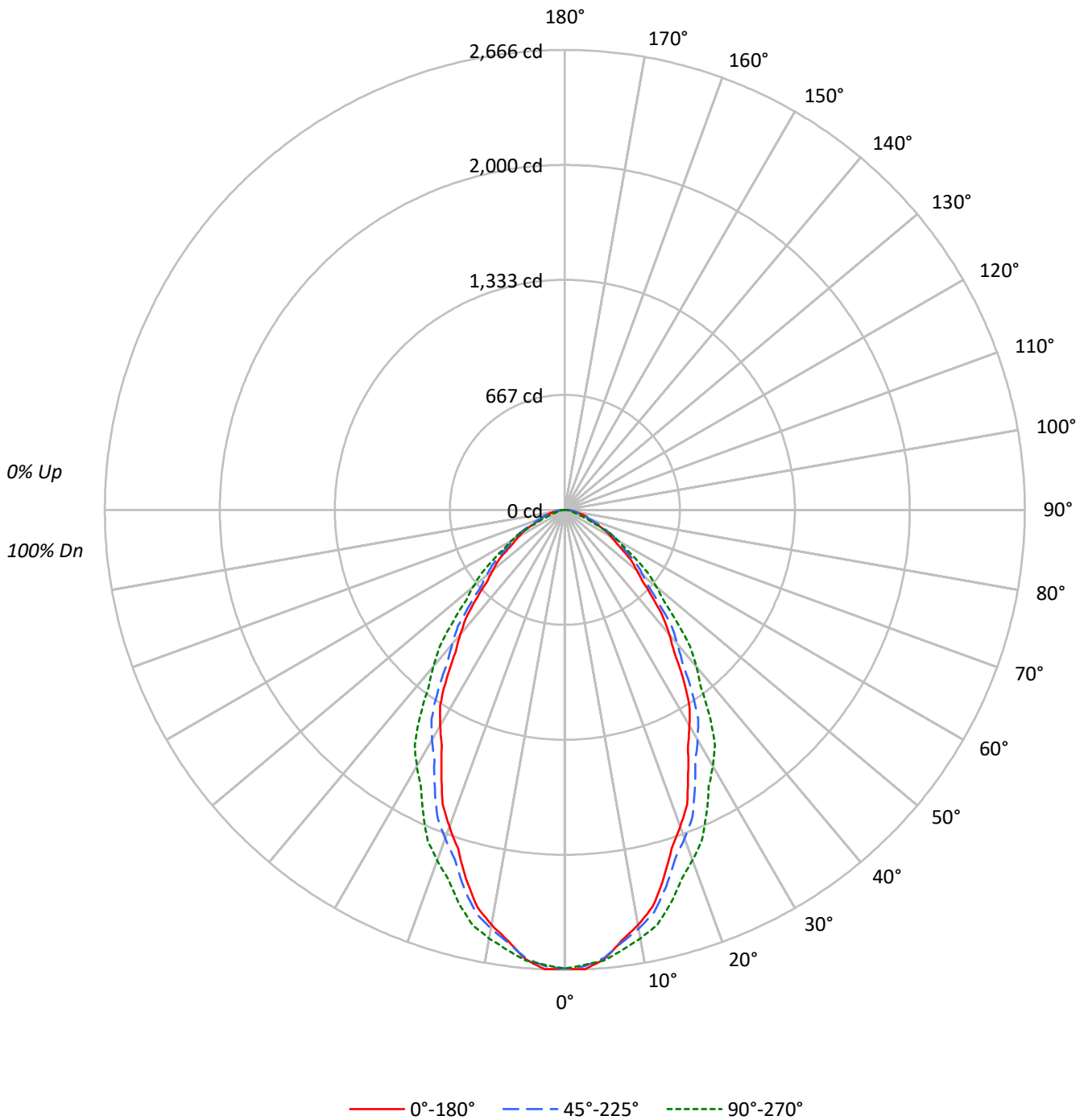
Lumens per Lamp: N/A
Luminaire Lumens: 3874.7 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53		62	56	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48		58	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46	41	37	35

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	6.3
10°-20°	634.4	16.4
20°-30°	821.7	21.2
30°-40°	804.6	20.8
40°-50°	615.9	15.9
50°-60°	410.4	10.6
60°-70°	224.0	5.8
70°-80°	93.3	2.4
80°-90°	26.4	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1700.0	43.9
0°-40°	2504.6	64.6
0°-60°	3530.9	91.1
0°-90°	3874.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3874.7	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	33
90°	0	0	0	0	0	



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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°	10.3	10.3	9.3	5.6	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)