

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: P519342

Luminaire Tested: **SQ4-WB-0U-125D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519342
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-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

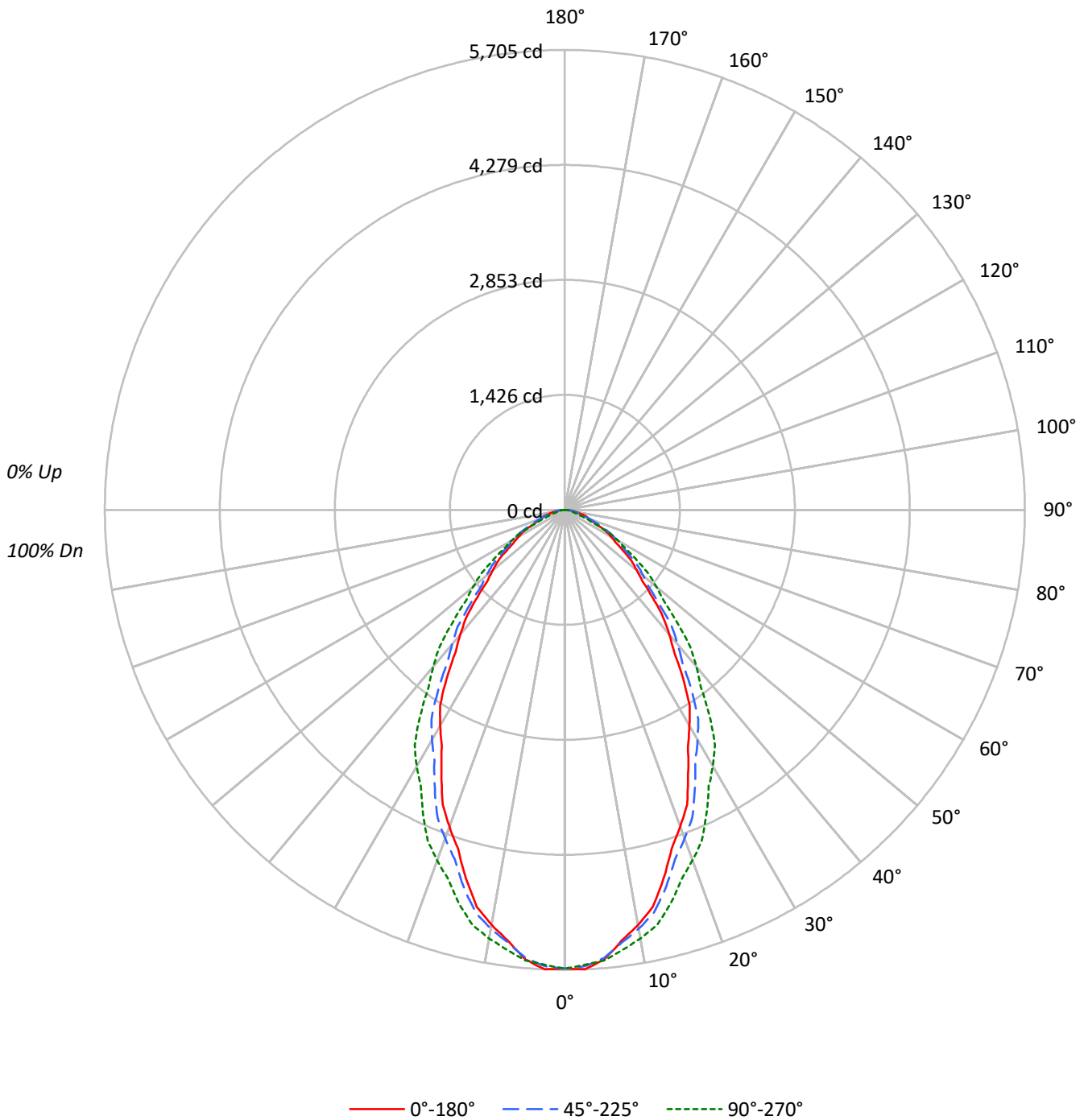
Lumens per Lamp: N/A
Luminaire Lumens: 8292.5 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 91.1
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°	26252	26252	26252
5°	25925	25832	25983
10°	24493	24716	25288
15°	22611	23136	24173
20°	20533	21305	22715
25°	18417	19421	21162
30°	16467	17544	19553
35°	14400	15441	17648
40°	12120	13082	15278
45°	10002	10866	12756
50°	8351	9104	10627
55°	7090	7813	8776
60°	6059	6773	7004
65°	4825	5697	4524
70°	4277	4446	2762
75°	3960	3606	1691
80°	3647	3318	1458
85°	3303	3038	1191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.0	6.3
10°-20°	1357.7	16.4
20°-30°	1758.6	21.2
30°-40°	1722.1	20.8
40°-50°	1318.2	15.9
50°-60°	878.4	10.6
60°-70°	479.3	5.8
70°-80°	199.7	2.4
80°-90°	56.6	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°	3638.3	43.9
0°-40°	5360.4	64.6
0°-60°	7556.9	91.1
0°-90°	8292.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8292.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5691	5691	5691	5691	5691	
5°	5598	5542	5578	5591	5611	521
15°	4734	4717	4844	4976	5062	1322
25°	3618	3628	3816	3982	4158	1664
35°	2557	2569	2742	2926	3134	1590
45°	1533	1562	1666	1792	1955	1196
55°	882	918	971	1008	1091	799
65°	442	479	522	456	414	459
75°	222	222	202	139	95	237
85°	62	62	57	37	22	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5690.8	5690.8	5690.8	5690.8	5690.8
2.5°	5704.8	5654.0	5666.8	5666.5	5650.8
5°	5598.4	5542.2	5578.4	5591.3	5610.9
7.5°	5390.6	5348.2	5414.1	5463.0	5502.5
10°	5228.8	5192.2	5276.3	5347.4	5398.6
12.5°	5041.1	5010.3	5114.5	5209.9	5276.8
15°	4734.4	4717.3	4844.3	4976.1	5061.5
17.5°	4406.3	4398.0	4543.6	4697.4	4806.8
20°	4182.6	4180.1	4339.9	4500.1	4627.0
22.5°	3956.8	3962.2	4130.1	4296.7	4441.3
25°	3618.2	3628.0	3815.5	3981.8	4157.6
27.5°	3305.1	3309.5	3503.4	3678.9	3866.4
30°	3091.4	3103.6	3293.6	3475.3	3670.7
32.5°	2877.6	2891.8	3077.9	3265.7	3464.9
35°	2557.0	2569.2	2741.8	2926.3	3133.8
37.5°	2226.4	2243.0	2396.2	2570.6	2774.7
40°	2012.6	2037.0	2172.4	2336.8	2537.0
42.5°	1806.9	1837.1	1962.7	2118.6	2299.3
45°	1533.2	1562.5	1665.5	1791.6	1955.2
47.5°	1297.5	1331.2	1410.3	1518.9	1658.5
50°	1163.6	1195.4	1268.5	1348.9	1480.8
52.5°	1045.8	1077.5	1142.7	1204.6	1316.9
55°	881.5	918.1	971.4	1008.2	1091.2
57.5°	746.6	781.8	824.0	840.7	890.9
60°	656.7	695.8	734.1	732.2	759.1
62.5°	574.8	608.0	646.2	619.8	621.3
65°	442.0	478.6	521.9	456.0	414.5
67.5°	357.1	364.9	409.5	318.0	268.7
70°	317.1	317.1	329.6	246.3	204.8
72.5°	279.2	279.2	267.7	200.3	156.8
75°	222.2	222.2	202.3	138.8	94.9
77.5°	171.3	169.3	154.8	103.6	68.9
80°	137.3	137.3	124.9	81.8	54.9
82.5°	107.4	107.4	96.9	63.9	41.0
85°	62.4	62.4	57.4	37.1	22.5
87.5°	22.0	22.0	20.0	11.9	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)