

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P213050

Luminaire Tested: **DSI-WS-30L840-1D-UNV-4-STD-SC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35731)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-30L840-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH SOLID COVER, LIGHT LEVEL 2.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2949.4 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.4 / 1.49
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

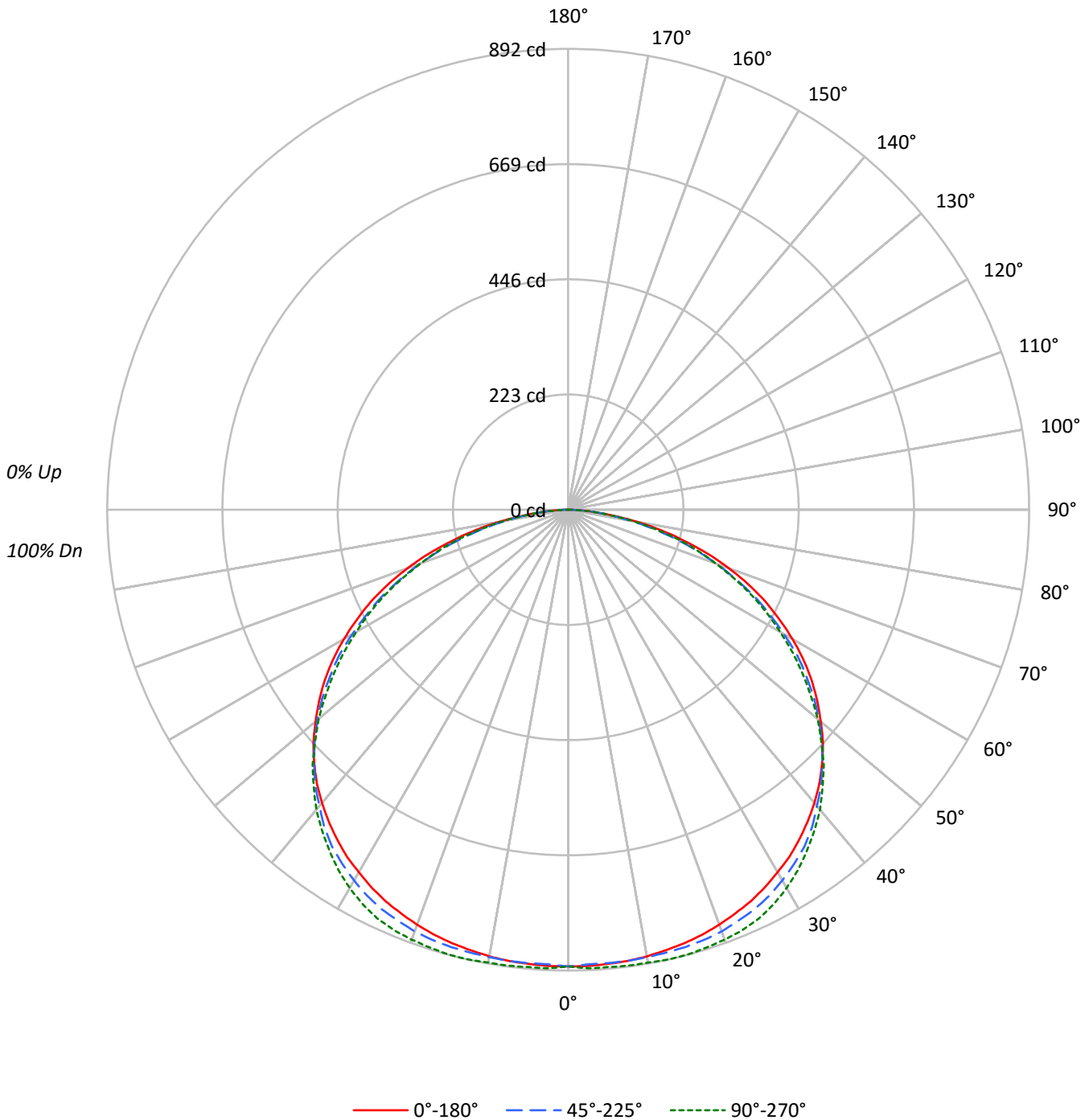
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2979	2979	2979
5°	2985	2980	3006
10°	3003	3009	3046
15°	3030	3057	3111
20°	3065	3115	3175
25°	3109	3172	3246
30°	3152	3224	3290
35°	3206	3276	3314
40°	3259	3293	3334
45°	3311	3311	3333
50°	3344	3320	3304
55°	3378	3306	3252
60°	3378	3253	3191
65°	3358	3175	3125
70°	3256	2999	2984
75°	3022	2742	2842
80°	2625	2358	2476
85°	1902	1844	1902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	2.9
10°-20°	248.7	8.4
20°-30°	394.1	13.4
30°-40°	497.1	16.9
40°-50°	536.9	18.2
50°-60°	503.6	17.1
60°-70°	396.6	13.4
70°-80°	230.8	7.8
80°-90°	57.3	1.9
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°	727.1	24.7
0°-40°	1224.2	41.5
0°-60°	2264.7	76.8
0°-90°	2949.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2949.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	882	884	881	887	889	84
15°	869	872	876	887	892	246
25°	836	842	853	867	873	386
35°	779	786	796	804	806	488
45°	695	696	695	698	700	536
55°	575	573	563	556	554	513
65°	421	414	398	394	392	415
75°	232	224	211	215	218	246
85°	49	49	48	49	49	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	884.0	884.0	884.0	884.0	<i>884.0</i>
2.5°	884.0	884.0	880.9	885.5	<i>888.6</i>
5°	882.4	884.0	880.9	887.1	<i>888.6</i>
7.5°	880.9	880.9	880.9	887.1	<i>890.1</i>
10°	877.8	879.4	879.4	888.6	<i>890.1</i>
12.5°	<i>873.2</i>	<i>876.3</i>	<i>877.8</i>	<i>887.1</i>	<i>891.7</i>
15°	868.6	871.7	876.3	887.1	<i>891.7</i>
17.5°	862.5	867.1	873.2	885.5	<i>888.6</i>
20°	854.8	859.4	868.6	882.4	<i>885.5</i>
22.5°	845.6	853.2	860.9	874.8	<i>880.9</i>
25°	836.3	842.5	853.2	867.1	<i>873.2</i>
27.5°	824.0	831.7	842.5	854.8	<i>860.9</i>
30°	810.2	819.4	828.6	842.5	<i>845.6</i>
32.5°	796.4	804.0	813.3	824.0	<i>827.1</i>
35°	779.4	785.6	796.4	804.0	<i>805.6</i>
37.5°	761.0	767.1	774.8	781.0	<i>782.5</i>
40°	741.0	745.6	748.7	754.8	<i>757.9</i>
42.5°	719.5	722.6	724.1	727.2	<i>728.7</i>
45°	694.9	696.4	694.9	698.0	<i>699.5</i>
47.5°	668.8	668.8	665.7	665.7	<i>664.1</i>
50°	638.0	638.0	633.4	630.3	<i>630.3</i>
52.5°	607.3	607.3	599.6	595.0	<i>591.9</i>
55°	575.0	573.4	562.7	556.5	<i>553.5</i>
57.5°	539.6	536.5	525.8	516.6	<i>515.0</i>
60°	501.2	496.6	482.7	476.6	<i>473.5</i>
62.5°	461.2	455.1	439.7	435.1	<i>433.5</i>
65°	421.2	413.6	398.2	393.6	<i>392.0</i>
67.5°	376.7	367.4	350.5	347.4	<i>347.4</i>
70°	330.5	319.8	304.4	304.4	<i>302.9</i>
72.5°	282.9	273.7	258.3	261.4	<i>261.4</i>
75°	232.1	224.5	210.6	215.2	<i>218.3</i>
77.5°	184.5	172.2	166.0	170.6	<i>170.6</i>
80°	135.3	127.6	121.5	123.0	<i>127.6</i>
82.5°	87.6	84.6	81.5	83.0	<i>83.0</i>
85°	49.2	49.2	47.7	49.2	<i>49.2</i>
87.5°	21.5	21.5	15.4	9.2	<i>9.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)