

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: P213049

Luminaire Tested: **DSI-WS-20L840-1D-UNV-4-STD-SC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213049
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-20L840-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH SOLID COVER, LIGHT LEVEL 1.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2033.6 lumens
Efficiency: N/A
Efficacy: 133.8 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

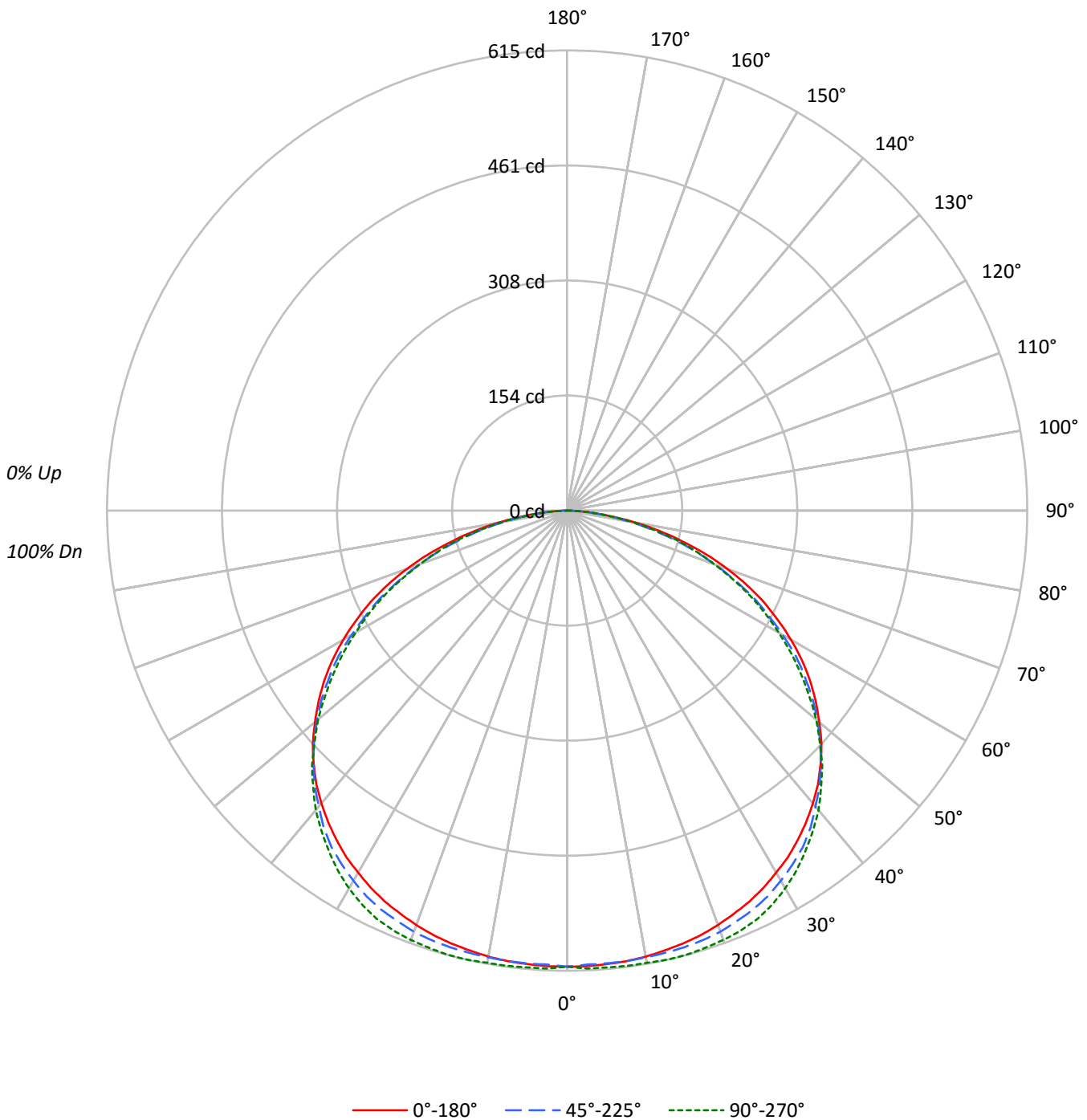
Input Watts (W): 15.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2054	2054	2054
5°	2058	2054	2072
10°	2071	2074	2100
15°	2089	2108	2145
20°	2113	2148	2190
25°	2144	2187	2239
30°	2173	2223	2268
35°	2211	2259	2285
40°	2247	2271	2299
45°	2283	2283	2298
50°	2306	2289	2278
55°	2329	2279	2242
60°	2329	2243	2200
65°	2315	2189	2155
70°	2245	2068	2057
75°	2084	1890	1959
80°	1810	1624	1708
85°	1311	1272	1311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	2.9
10°-20°	171.5	8.4
20°-30°	271.7	13.4
30°-40°	342.7	16.9
40°-50°	370.2	18.2
50°-60°	347.2	17.1
60°-70°	273.5	13.4
70°-80°	159.2	7.8
80°-90°	39.5	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°	501.3	24.7
0°-40°	844.0	41.5
0°-60°	1561.5	76.8
0°-90°	2033.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	608	610	607	612	613	58
15°	599	601	604	612	615	169
25°	577	581	588	598	602	266
35°	537	542	549	554	555	336
45°	479	480	479	481	482	369
55°	396	395	388	384	382	354
65°	290	285	274	271	270	286
75°	160	155	145	148	150	170
85°	34	34	33	34	34	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	609.5	609.5	609.5	609.5	609.5
2.5°	609.5	609.5	607.4	610.6	612.7
5°	608.4	609.5	607.4	611.6	612.7
7.5°	607.4	607.4	607.4	611.6	613.7
10°	605.3	606.3	606.3	612.7	613.7
12.5°	602.1	604.2	605.3	611.6	614.8
15°	598.9	601.0	604.2	611.6	614.8
17.5°	594.7	597.8	602.1	610.6	612.7
20°	589.4	592.5	598.9	608.4	610.6
22.5°	583.0	588.3	593.6	603.1	607.4
25°	576.6	580.9	588.3	597.8	602.1
27.5°	568.2	573.5	580.9	589.4	593.6
30°	558.6	565.0	571.3	580.9	583.0
32.5°	549.1	554.4	560.7	568.2	570.3
35°	537.4	541.7	549.1	554.4	555.4
37.5°	524.7	528.9	534.2	538.5	539.5
40°	510.9	514.1	516.2	520.5	522.6
42.5°	496.1	498.2	499.3	501.4	502.4
45°	479.1	480.2	479.1	481.2	482.3
47.5°	461.1	461.1	459.0	459.0	457.9
50°	439.9	439.9	436.7	434.6	434.6
52.5°	418.7	418.7	413.4	410.2	408.1
55°	396.4	395.4	388.0	383.7	381.6
57.5°	372.1	369.9	362.5	356.2	355.1
60°	345.6	342.4	332.8	328.6	326.5
62.5°	318.0	313.8	303.2	300.0	298.9
65°	290.4	285.1	274.5	271.4	270.3
67.5°	259.7	253.3	241.7	239.6	239.6
70°	227.9	220.5	209.9	209.9	208.8
72.5°	195.0	188.7	178.1	180.2	180.2
75°	160.1	154.8	145.2	148.4	150.5
77.5°	127.2	118.7	114.5	117.7	117.7
80°	93.3	88.0	83.7	84.8	88.0
82.5°	60.4	58.3	56.2	57.2	57.2
85°	33.9	33.9	32.9	33.9	33.9
87.5°	14.8	14.8	10.6	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)