

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: P213044

Luminaire Tested: **DSI-WS-20L835-1D-UNV-4-STD-SC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213044
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-20L835-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH SOLID COVER, LIGHT LEVEL 1.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2009.5 lumens
Efficiency: N/A
Efficacy: 132.2 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

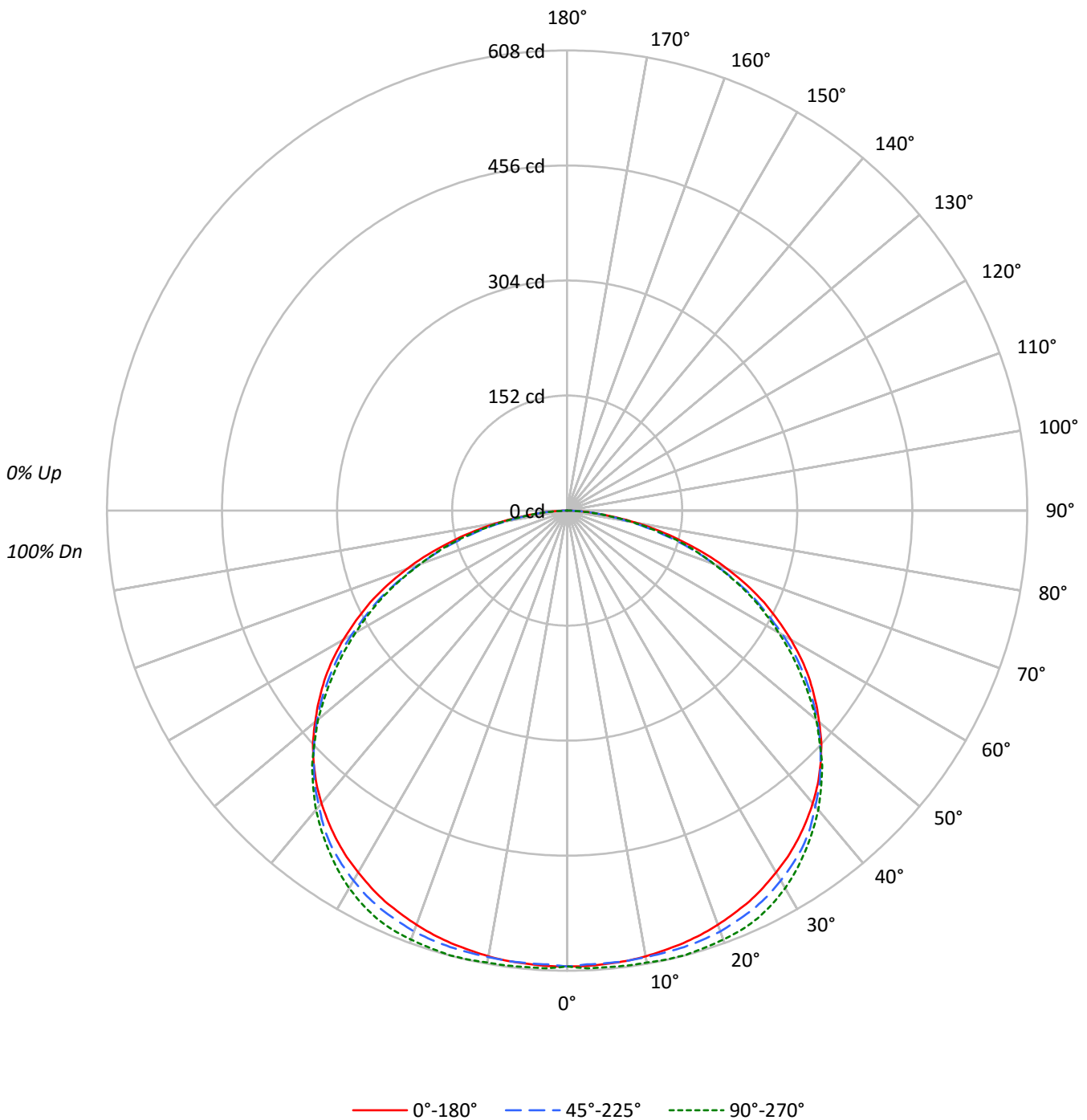
Input Watts (W): 15.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2029	2029	2029
5°	2034	2030	2048
10°	2046	2050	2075
15°	2064	2083	2119
20°	2088	2122	2163
25°	2118	2161	2212
30°	2148	2197	2242
35°	2184	2232	2257
40°	2221	2244	2271
45°	2256	2256	2271
50°	2279	2262	2251
55°	2301	2252	2215
60°	2301	2217	2174
65°	2288	2163	2130
70°	2219	2043	2032
75°	2060	1868	1936
80°	1789	1605	1686
85°	1295	1256	1295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	2.9
10°-20°	169.4	8.4
20°-30°	268.5	13.4
30°-40°	338.7	16.9
40°-50°	365.8	18.2
50°-60°	343.1	17.1
60°-70°	270.2	13.4
70°-80°	157.3	7.8
80°-90°	39.0	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°	495.4	24.7
0°-40°	834.0	41.5
0°-60°	1542.9	76.8
0°-90°	2009.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2009.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	601	602	600	604	605	57
15°	592	594	597	604	608	167
25°	570	574	581	591	595	263
35°	531	535	543	548	549	332
45°	473	474	473	476	477	365
55°	392	391	383	379	377	349
65°	287	282	271	268	267	282
75°	158	153	144	147	149	168
85°	34	34	32	34	34	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	602.3	602.3	602.3	602.3	602.3
2.5°	602.3	602.3	600.2	603.3	605.4
5°	601.2	602.3	600.2	604.4	605.4
7.5°	600.2	600.2	600.2	604.4	606.4
10°	598.1	599.1	599.1	605.4	606.4
12.5°	594.9	597.0	598.1	604.4	607.5
15°	591.8	593.9	597.0	604.4	607.5
17.5°	587.6	590.7	594.9	603.3	605.4
20°	582.4	585.5	591.8	601.2	603.3
22.5°	576.1	581.3	586.5	596.0	600.2
25°	569.8	574.0	581.3	590.7	594.9
27.5°	561.4	566.6	574.0	582.4	586.5
30°	552.0	558.3	564.6	574.0	576.1
32.5°	542.6	547.8	554.1	561.4	563.5
35°	531.0	535.2	542.6	547.8	548.8
37.5°	518.5	522.7	527.9	532.1	533.1
40°	504.9	508.0	510.1	514.3	516.4
42.5°	490.2	492.3	493.3	495.4	496.5
45°	473.4	474.5	473.4	475.5	476.6
47.5°	455.6	455.6	453.5	453.5	452.5
50°	434.7	434.7	431.5	429.4	429.4
52.5°	413.7	413.7	408.5	405.3	403.3
55°	391.7	390.7	383.4	379.2	377.1
57.5°	367.6	365.5	358.2	351.9	350.9
60°	341.5	338.3	328.9	324.7	322.6
62.5°	314.2	310.0	299.6	296.4	295.4
65°	287.0	281.8	271.3	268.1	267.1
67.5°	256.6	250.3	238.8	236.7	236.7
70°	225.2	217.9	207.4	207.4	206.3
72.5°	192.7	186.4	176.0	178.1	178.1
75°	158.2	152.9	143.5	146.6	148.7
77.5°	125.7	117.3	113.1	116.3	116.3
80°	92.2	86.9	82.7	83.8	86.9
82.5°	59.7	57.6	55.5	56.6	56.6
85°	33.5	33.5	32.5	33.5	33.5
87.5°	14.7	14.7	10.5	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)