

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: P213100

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35735)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WD-20L835-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE 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: 2070.6 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.38 / 1.47
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

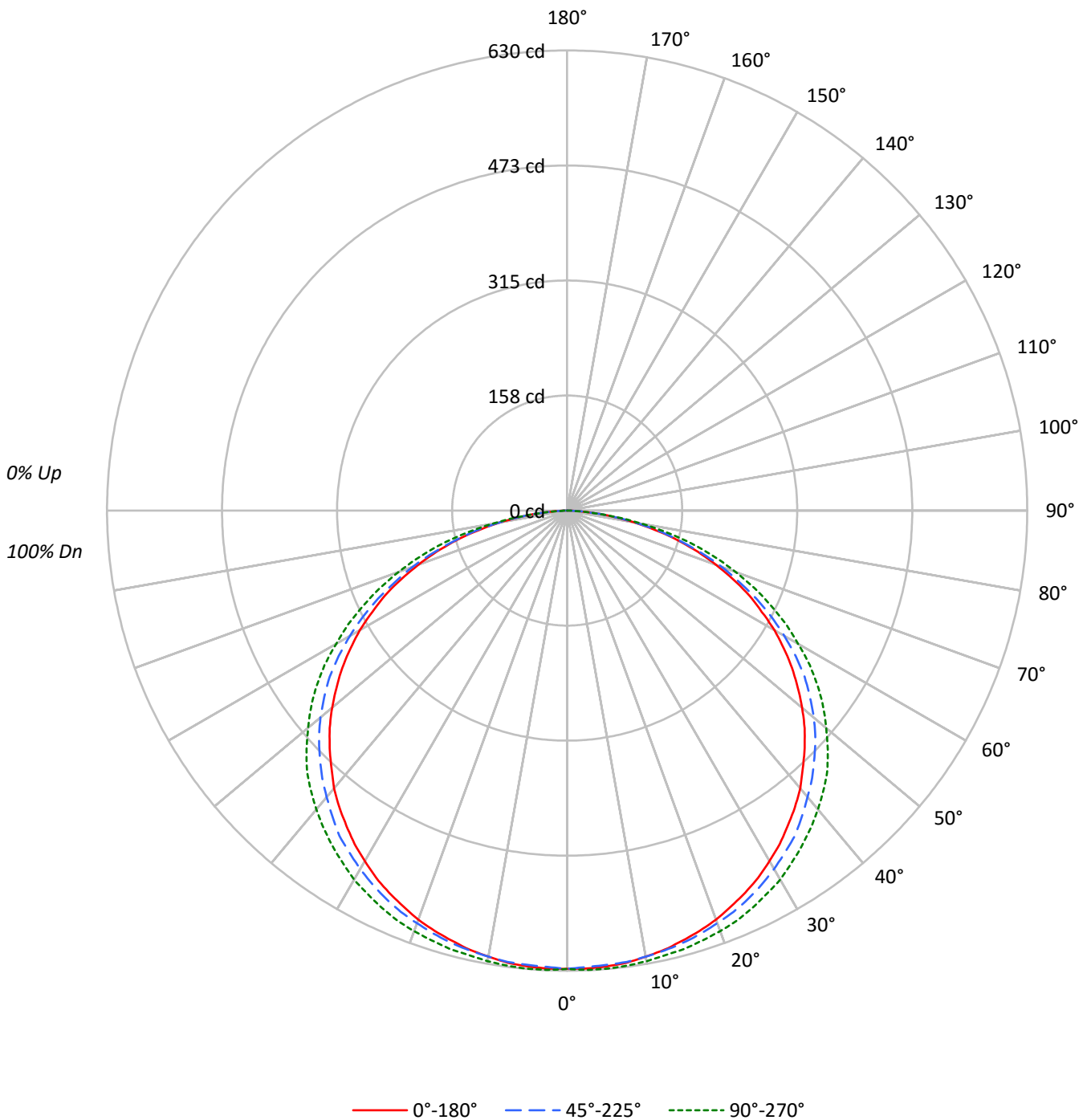
Input Watts (W): 15.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	68	59	52	79	67	58	52	65	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2114	2114	2114
5°	2119	2112	2129
10°	2122	2122	2143
15°	2127	2137	2167
20°	2137	2156	2197
25°	2146	2181	2231
30°	2156	2205	2270
35°	2167	2236	2305
40°	2184	2253	2350
45°	2191	2281	2401
50°	2202	2312	2427
55°	2209	2332	2461
60°	2209	2316	2463
65°	2197	2280	2455
70°	2136	2219	2415
75°	2045	2073	2332
80°	1789	1830	2032
85°	1338	1338	1256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	2.9
10°-20°	173.8	8.4
20°-30°	271.2	13.1
30°-40°	340.2	16.4
40°-50°	370.8	17.9
50°-60°	354.3	17.1
60°-70°	285.4	13.8
70°-80°	172.9	8.4
80°-90°	42.3	2.0
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°	504.7	24.4
0°-40°	844.9	40.8
0°-60°	1570.0	75.8
0°-90°	2070.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2070.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	626	627	624	628	630	60
15°	610	612	613	619	621	172
25°	577	579	586	596	600	266
35°	527	532	544	555	560	330
45°	460	467	479	495	504	355
55°	376	384	397	412	419	336
65°	276	280	286	300	308	271
75°	157	159	159	172	179	164
85°	35	34	35	34	32	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.4	627.4	627.4	627.4	627.4
2.5°	627.4	627.4	625.3	628.4	629.5
5°	626.4	627.4	624.3	628.4	629.5
7.5°	624.3	624.3	623.2	626.4	628.4
10°	620.1	621.1	620.1	624.3	626.4
12.5°	615.9	616.9	616.9	622.2	623.2
15°	609.6	611.7	612.7	619.0	621.1
17.5°	603.3	605.4	607.5	614.8	616.9
20°	596.0	599.1	601.2	609.6	612.7
22.5°	586.5	589.7	594.9	603.3	607.5
25°	577.1	579.2	586.5	596.0	600.2
27.5°	566.6	569.8	577.1	587.6	591.8
30°	554.1	559.3	566.6	578.2	583.4
32.5°	541.5	546.7	555.1	566.6	571.9
35°	526.8	532.1	543.6	555.1	560.4
37.5°	512.2	517.4	527.9	541.5	547.8
40°	496.5	501.7	512.2	527.9	534.2
42.5°	477.6	485.0	496.5	512.2	519.5
45°	459.8	467.1	478.7	495.4	503.8
47.5°	441.0	448.3	460.9	477.6	483.9
50°	420.0	427.3	441.0	456.7	463.0
52.5°	398.0	407.4	419.0	434.7	442.0
55°	376.0	384.4	397.0	411.6	419.0
57.5°	351.9	358.2	370.8	385.4	393.8
60°	327.8	333.1	343.6	358.2	365.5
62.5°	300.6	306.9	315.3	329.9	338.3
65°	275.5	279.7	285.9	299.6	307.9
67.5°	246.1	249.3	254.5	270.2	277.6
70°	216.8	221.0	225.2	238.8	245.1
72.5°	187.5	190.6	192.7	204.2	212.6
75°	157.1	159.2	159.2	171.8	179.1
77.5°	124.6	125.7	128.8	137.2	141.4
80°	92.2	95.3	94.3	100.6	104.7
82.5°	61.8	61.8	61.8	64.9	67.0
85°	34.6	33.5	34.6	33.5	32.5
87.5°	11.5	13.6	9.4	7.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)