

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: P213088

Luminaire Tested: **DSI-WD-40L835-1D-UNV-4-STD-FC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35734)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WD-40L835-1D-UNV-4-STD-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH FROSTED COVER, LIGHT LEVEL 3.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4047.3 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.43 / 1.52
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

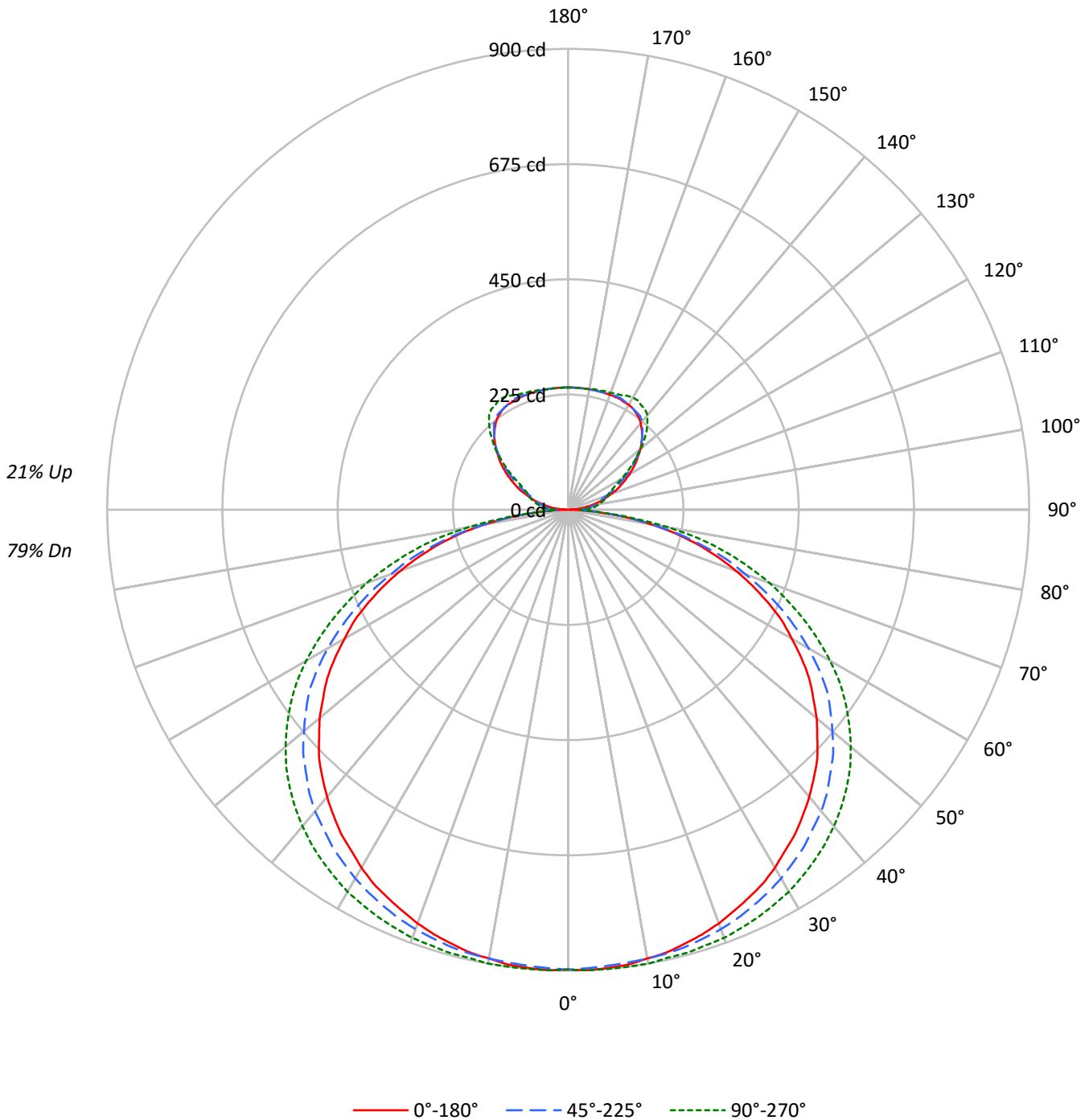
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	99	99	99		91	91	91		82	82	82	79
1	103	98	94	90	98	94	90	86	86	83	80		78	76	73		71	69	68	64
2	93	85	78	72	89	81	75	69	74	69	64		68	63	60		62	58	55	52
3	84	74	65	59	80	71	63	57	64	58	53		59	54	50		54	50	46	43
4	77	65	56	49	73	62	54	48	57	50	45		52	46	42		47	43	39	36
5	70	57	48	42	67	55	47	40	51	44	38		46	40	36		42	37	34	31
6	65	51	42	36	61	49	41	35	45	38	33		42	36	31		38	33	29	27
7	60	46	38	31	57	44	36	31	41	34	29		38	32	27		35	30	26	23
8	56	42	34	28	53	40	32	27	37	30	26		34	28	24		32	27	23	21
9	52	38	30	25	49	37	29	24	34	27	23		32	26	22		29	24	20	18
10	48	35	27	22	46	34	27	22	31	25	21		29	23	19		27	22	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3027	3027	3027
5°	3038	3024	3045
10°	3046	3046	3080
15°	3063	3084	3126
20°	3083	3126	3192
25°	3106	3174	3264
30°	3140	3235	3353
35°	3178	3304	3445
40°	3221	3381	3550
45°	3278	3451	3663
50°	3319	3531	3775
55°	3375	3625	3886
60°	3395	3653	3981
65°	3436	3661	4048
70°	3428	3627	4125
75°	3398	3555	4135
80°	3180	3219	3846
85°	2347	2501	2583



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	2.1
10°-20°	250.6	6.2
20°-30°	395.2	9.8
30°-40°	503.6	12.4
40°-50°	560.7	13.9
50°-60°	550.0	13.6
60°-70°	459.5	11.4
70°-80°	296.0	7.3
80°-90°	83.2	2.1
90°-100°	40.2	1.0
100°-110°	70.7	1.7
110°-120°	103.4	2.6
120°-130°	139.1	3.4
130°-140°	159.1	3.9
140°-150°	148.1	3.7
150°-160°	111.6	2.8
160°-170°	67.9	1.7
170°-180°	22.8	0.6
0°-30°	731.4	18.1
0°-40°	1235.0	30.5
0°-60°	2345.7	58.0
0°-90°	3184.4	78.7
90°-120°	214.4	5.3
90°-150°	660.6	16.3
90°-180°	863.0	21.3
0°-180°	4047.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	898	898	894	900	900	86
15°	878	882	884	892	896	248
25°	836	842	854	872	878	386
35°	773	781	803	827	838	483
45°	688	698	724	757	769	529
55°	574	587	617	645	662	512
65°	431	441	459	494	508	425
75°	261	265	273	303	318	274
85°	61	63	65	69	67	73
90°	2	14	20	24	24	5
95°	20	30	40	46	51	21
105°	67	63	63	71	73	70
115°	113	111	103	97	95	113
125°	162	158	156	152	152	144
135°	204	200	204	212	216	157
145°	231	229	233	245	249	144
155°	239	239	241	245	247	110
165°	239	239	239	241	241	68
175°	239	239	239	239	239	23
180°	239	239	239	239	239	



TEST NUMBER: P213088

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.2	898.2	898.2	898.2	898.2
2.5°	900.2	900.2	896.1	900.2	900.2
5°	898.2	898.2	894.1	900.2	900.2
7.5°	896.1	896.1	892.1	900.2	900.2
10°	890.1	892.1	890.1	898.2	900.2
12.5°	886.0	888.0	888.0	896.1	896.1
15°	877.9	882.0	884.0	892.1	896.1
17.5°	869.8	873.9	877.9	888.0	892.1
20°	859.7	863.8	871.9	884.0	890.1
22.5°	847.6	853.7	863.8	877.9	884.0
25°	835.5	841.5	853.7	871.9	877.9
27.5°	823.3	829.4	843.5	861.7	869.8
30°	807.1	815.2	831.4	851.6	861.7
32.5°	788.9	799.0	817.2	839.5	849.6
35°	772.7	780.8	803.1	827.4	837.5
37.5°	752.5	762.6	784.9	813.2	823.3
40°	732.3	744.4	768.7	795.0	807.1
42.5°	710.0	720.1	748.5	776.8	788.9
45°	687.8	697.9	724.2	756.6	768.7
47.5°	659.5	673.6	701.9	734.3	746.4
50°	633.2	645.3	673.6	708.0	720.1
52.5°	602.8	619.0	645.3	677.7	691.8
55°	574.5	586.6	617.0	645.3	661.5
57.5°	540.1	554.3	580.6	610.9	629.1
60°	503.7	517.9	542.1	572.5	590.7
62.5°	471.3	479.4	501.7	534.0	550.2
65°	430.9	441.0	459.2	493.6	507.7
67.5°	390.4	398.5	414.7	449.1	463.2
70°	347.9	356.0	368.2	402.6	418.7
72.5°	305.5	311.5	325.7	354.0	368.2
75°	261.0	265.0	273.1	303.4	317.6
77.5°	214.4	214.4	222.5	248.8	263.0
80°	163.9	163.9	165.9	190.2	198.2
82.5°	113.3	109.2	113.3	127.4	129.5
85°	60.7	62.7	64.7	68.8	66.8
87.5°	22.3	26.3	28.3	26.3	26.3
90°	2.0	14.2	20.2	24.3	24.3
92.5°	10.1	24.3	34.4	36.4	38.4
95°	20.2	30.3	40.5	46.5	50.6
97.5°	32.4	34.4	46.5	54.6	54.6
100°	42.5	42.5	52.6	60.7	60.7
102.5°	54.6	52.6	58.7	64.7	66.8
105°	66.8	62.7	62.7	70.8	72.8
107.5°	76.9	74.8	68.8	76.9	78.9
110°	89.0	87.0	78.9	80.9	82.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.2	99.1	91.0	87.0	87.0
115°	113.3	111.3	103.2	97.1	95.1
117.5°	125.4	121.4	115.3	109.2	105.2
120°	137.6	133.5	127.4	123.4	119.4
122.5°	149.7	147.7	141.6	137.6	135.5
125°	161.8	157.8	155.8	151.7	151.7
127.5°	171.9	169.9	167.9	167.9	167.9
130°	184.1	180.0	182.1	182.1	186.1
132.5°	194.2	190.2	194.2	198.2	200.3
135°	204.3	200.3	204.3	212.4	216.4
137.5°	212.4	210.4	214.4	224.5	228.6
140°	220.5	218.5	224.5	234.7	240.7
142.5°	226.6	224.5	230.6	240.7	246.8
145°	230.6	228.6	232.6	244.8	248.8
147.5°	234.7	232.6	234.7	248.8	252.9
150°	236.7	236.7	236.7	248.8	252.9
152.5°	236.7	236.7	238.7	244.8	250.8
155°	238.7	238.7	240.7	244.8	246.8
157.5°	238.7	238.7	240.7	242.7	244.8
160°	238.7	238.7	238.7	242.7	242.7
162.5°	238.7	238.7	238.7	240.7	242.7
165°	238.7	238.7	238.7	240.7	240.7
167.5°	238.7	238.7	238.7	240.7	240.7
170°	238.7	238.7	238.7	238.7	238.7
172.5°	238.7	238.7	238.7	238.7	238.7
175°	238.7	238.7	238.7	238.7	238.7
177.5°	238.7	238.7	238.7	238.7	238.7
180°	238.7	238.7	238.7	238.7	238.7

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