

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: P213060

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35732)
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-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC, LIGHT LEVEL 3.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4100.1 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.45 / 1.52
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

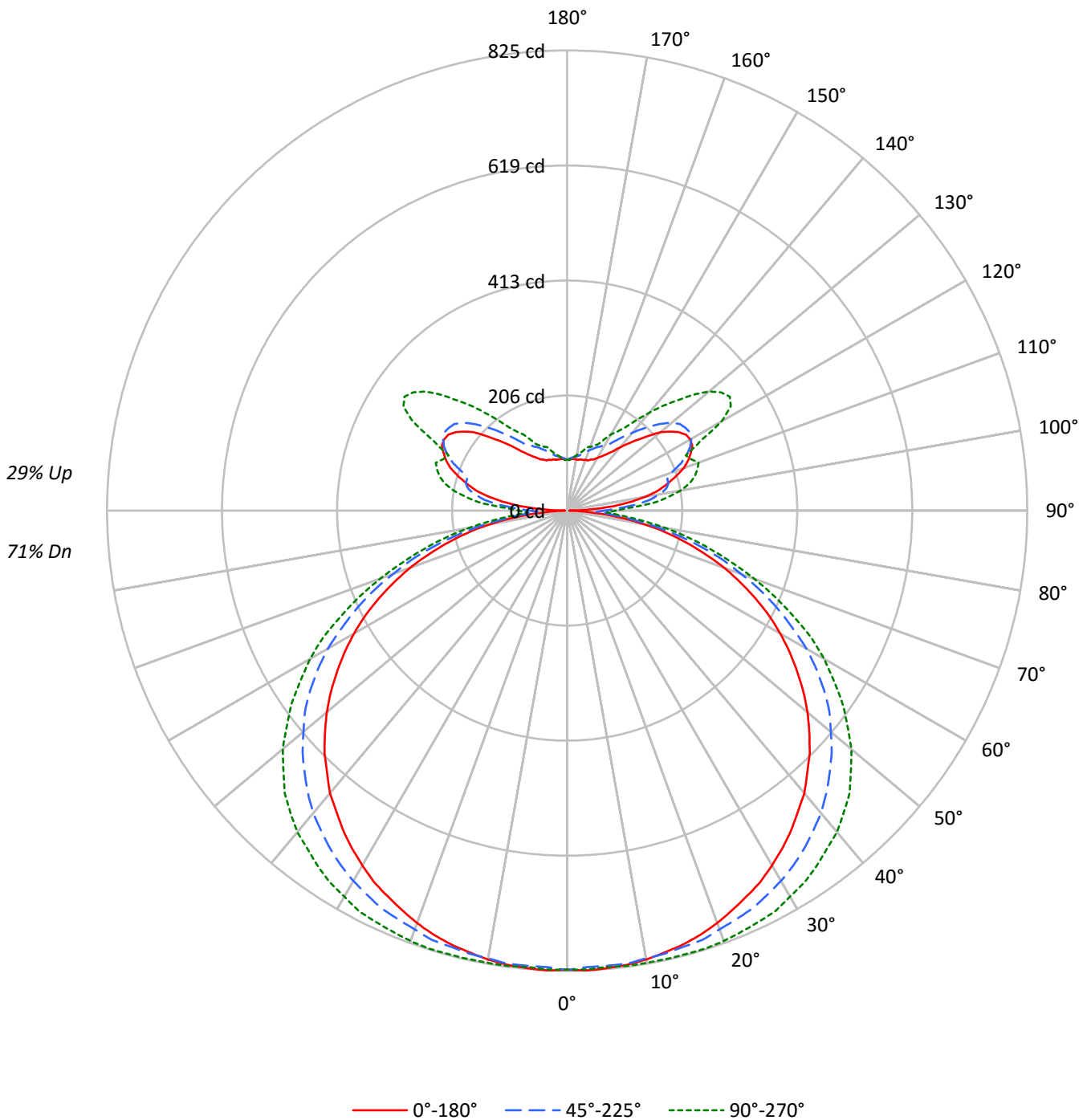
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	101	97	92	88	96	91	88	84	82	79	76	73	71	69	65	63	62	58
2	92	83	77	71	86	79	73	68	71	66	62	63	59	56	56	53	51	47
3	83	73	65	58	78	69	62	56	62	56	51	55	51	47	49	45	42	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	43	39	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28
6	64	51	42	36	60	48	40	34	44	37	32	39	33	29	35	30	27	24
7	59	46	37	31	55	43	36	30	39	33	28	35	30	26	32	27	24	21
8	55	41	33	27	52	39	32	26	36	29	25	32	27	23	29	24	21	19
9	51	38	30	24	48	36	29	23	33	26	22	30	24	20	27	22	19	17
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2774	2774	2774
5°	2785	2771	2778
10°	2796	2789	2817
15°	2809	2823	2872
20°	2822	2865	2945
25°	2835	2926	3023
30°	2857	2983	3109
35°	2879	3046	3204
40°	2910	3114	3310
45°	2931	3171	3412
50°	2948	3234	3489
55°	2959	3304	3541
60°	2972	3340	3585
65°	2968	3322	3565
70°	2950	3269	3507
75°	2871	3213	3450
80°	2709	3023	3454
85°	1956	3050	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	1.9
10°-20°	230.0	5.6
20°-30°	363.7	8.9
30°-40°	463.7	11.3
40°-50°	513.8	12.5
50°-60°	498.1	12.1
60°-70°	409.1	10.0
70°-80°	258.7	6.3
80°-90°	94.5	2.3
90°-100°	125.6	3.1
100°-110°	206.9	5.0
110°-120°	239.9	5.9
120°-130°	248.6	6.1
130°-140°	174.1	4.2
140°-150°	99.4	2.4
150°-160°	56.6	1.4
160°-170°	29.9	0.7
170°-180°	9.1	0.2
0°-30°	672.1	16.4
0°-40°	1135.8	27.7
0°-60°	2147.6	52.4
0°-90°	2909.9	71.0
90°-120°	572.4	14.0
90°-150°	1094.5	26.7
90°-180°	1190.0	29.0
0°-180°	4100.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	823	823	819	821	821	78
15°	805	807	809	821	823	227
25°	763	771	787	807	813	352
35°	700	714	740	769	779	438
45°	615	633	666	702	716	474
55°	504	526	562	591	603	450
65°	372	392	417	439	447	368
75°	220	235	247	255	265	232
85°	51	61	79	91	93	61
90°	4	38	67	81	87	9
95°	77	91	123	146	154	75
105°	186	168	188	222	237	196
115°	245	235	237	233	235	241
125°	245	249	259	320	356	217
135°	180	196	214	255	279	141
145°	123	140	154	174	182	79
155°	101	111	125	130	132	47
165°	95	99	105	111	111	27
175°	93	93	95	95	93	9
180°	91	91	91	91	91	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.3	823.3	823.3	823.3	823.3
2.5°	825.3	825.3	819.3	823.3	823.3
5°	823.3	823.3	819.3	821.3	821.3
7.5°	821.3	821.3	819.3	823.3	823.3
10°	817.2	817.2	815.2	821.3	823.3
12.5°	811.2	811.2	813.2	821.3	823.3
15°	805.1	807.1	809.2	821.3	823.3
17.5°	797.0	799.0	807.1	819.3	823.3
20°	786.9	791.0	799.0	815.2	821.3
22.5°	774.8	780.8	793.0	811.2	817.2
25°	762.6	770.7	786.9	807.1	813.2
27.5°	750.5	758.6	776.8	801.1	809.2
30°	734.3	744.4	766.7	791.0	799.0
32.5°	718.1	730.3	754.5	780.8	791.0
35°	699.9	714.1	740.4	768.7	778.8
37.5°	679.7	695.9	724.2	754.5	764.7
40°	661.5	675.6	708.0	740.4	752.5
42.5°	637.2	655.4	687.8	720.1	734.3
45°	615.0	633.2	665.5	701.9	716.1
47.5°	588.7	608.9	643.3	679.7	689.8
50°	562.4	582.6	617.0	651.4	665.5
52.5°	534.0	554.3	592.7	623.1	633.2
55°	503.7	526.0	562.4	590.7	602.8
57.5°	473.4	495.6	530.0	556.3	566.4
60°	441.0	461.2	495.6	519.9	532.0
62.5°	408.6	426.8	455.2	481.4	493.6
65°	372.2	392.4	416.7	439.0	447.1
67.5°	335.8	354.0	376.3	394.5	402.6
70°	299.4	315.6	331.8	350.0	356.0
72.5°	258.9	275.1	291.3	301.4	309.5
75°	220.5	234.7	246.8	254.9	265.0
77.5°	182.1	192.2	200.3	216.4	222.5
80°	139.6	147.7	155.8	171.9	178.0
82.5°	95.1	101.1	113.3	127.4	133.5
85°	50.6	60.7	78.9	91.0	93.1
87.5°	20.2	34.4	52.6	64.7	70.8
90°	4.0	38.4	66.8	80.9	87.0
92.5°	34.4	64.7	91.0	105.2	109.2
95°	76.9	91.0	123.4	145.6	153.7
97.5°	111.3	115.3	149.7	174.0	182.1
100°	141.6	129.5	167.9	198.2	206.3
102.5°	167.9	149.7	182.1	212.4	224.5
105°	186.1	167.9	188.1	222.5	236.7
107.5°	204.3	188.1	188.1	230.6	244.8
110°	222.5	206.3	198.2	230.6	250.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	234.7	222.5	220.5	224.5	240.7
115°	244.8	234.7	236.7	232.6	234.7
117.5°	252.9	244.8	248.8	281.2	269.0
120°	254.9	250.8	256.9	309.5	319.6
122.5°	252.9	252.9	261.0	319.6	347.9
125°	244.8	248.8	258.9	319.6	356.0
127.5°	232.6	238.7	254.9	311.5	347.9
130°	218.5	226.6	244.8	295.3	331.8
132.5°	198.2	212.4	230.6	277.1	307.5
135°	180.0	196.2	214.4	254.9	279.2
137.5°	163.9	180.0	198.2	232.6	254.9
140°	147.7	163.9	182.1	210.4	228.6
142.5°	133.5	151.7	167.9	190.2	204.3
145°	123.4	139.6	153.7	174.0	182.1
147.5°	115.3	129.5	141.6	161.8	167.9
150°	109.2	121.4	135.5	149.7	157.8
152.5°	103.2	115.3	129.5	137.6	143.6
155°	101.1	111.3	125.4	129.5	131.5
157.5°	97.1	107.2	119.4	125.4	125.4
160°	97.1	103.2	115.3	121.4	121.4
162.5°	95.1	101.1	109.2	117.3	119.4
165°	95.1	99.1	105.2	111.3	111.3
167.5°	93.1	97.1	101.1	105.2	105.2
170°	93.1	95.1	99.1	101.1	101.1
172.5°	93.1	95.1	97.1	97.1	97.1
175°	93.1	93.1	95.1	95.1	93.1
177.5°	91.0	93.1	93.1	93.1	91.0
180°	91.0	91.0	91.0	91.0	91.0

(END OF REPORT)