

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: P213074

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35733)
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-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH DUST COVER, LIGHT LEVEL 3.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4047.1 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.47 / 1.55
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

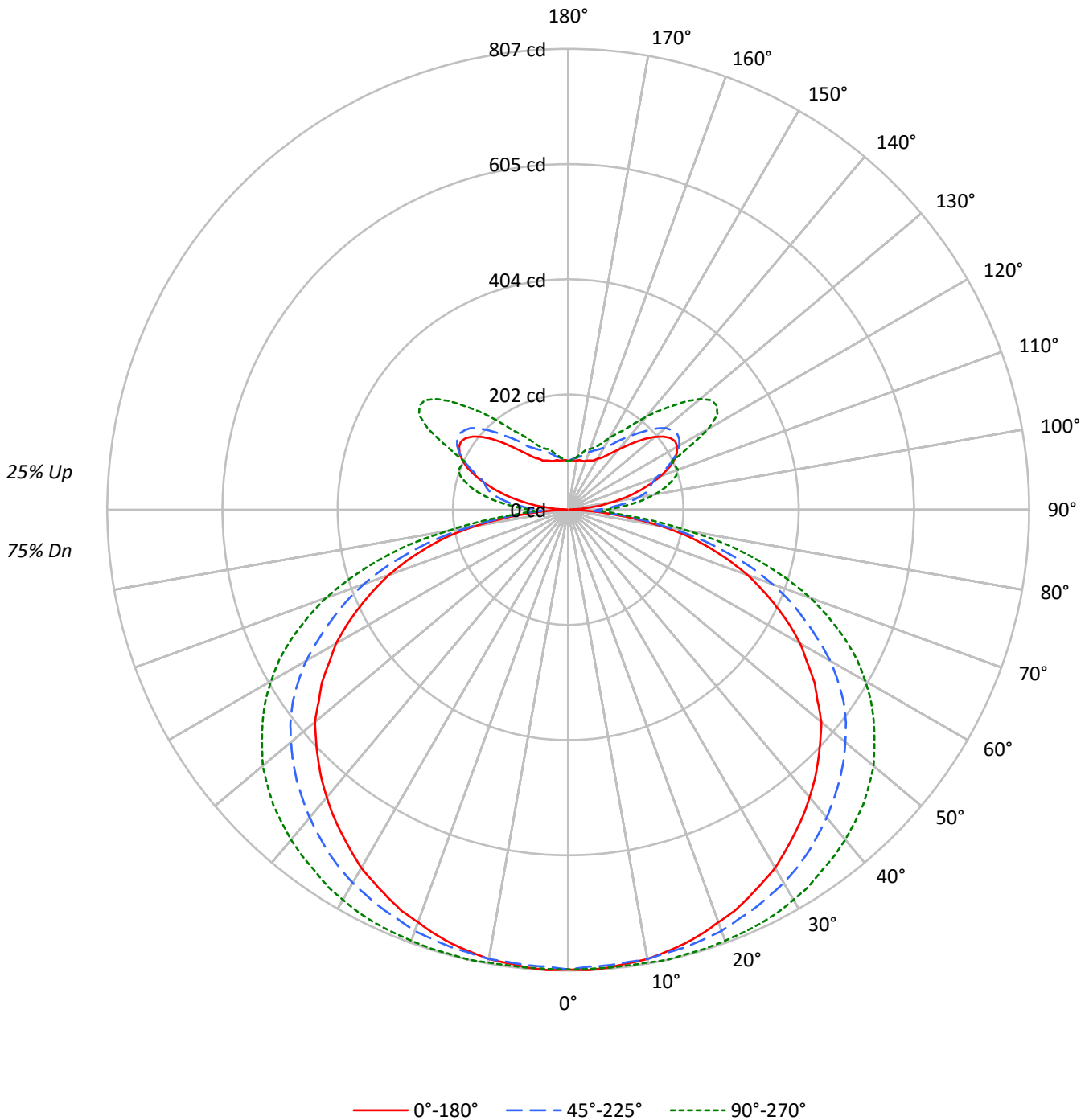
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	102	97	92	88	97	92	88	84	83	80	77	75	73	70	68	66	64	60
2	92	83	76	70	87	79	73	67	72	67	62	65	61	57	58	55	52	49
3	83	72	64	57	79	69	61	55	62	56	51	56	51	47	51	47	43	40
4	76	63	55	48	71	60	52	46	55	48	43	50	44	39	45	40	36	33
5	69	56	47	40	65	54	45	39	49	42	36	44	38	34	40	35	31	28
6	64	50	41	35	60	48	40	34	44	37	31	40	34	29	36	31	27	24
7	59	45	36	30	56	43	35	29	39	32	27	36	30	26	32	27	24	21
8	54	41	32	27	52	39	31	26	36	29	24	33	27	23	30	25	21	19
9	51	37	29	24	48	36	28	23	33	26	22	30	24	20	27	22	19	17
10	47	34	26	21	45	33	26	21	30	24	19	28	22	18	25	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2713	2713	2713
5°	2723	2710	2723
10°	2734	2734	2755
15°	2745	2766	2809
20°	2756	2815	2880
25°	2783	2865	2971
30°	2818	2936	3069
35°	2846	3012	3178
40°	2892	3097	3319
45°	2950	3200	3480
50°	3033	3319	3658
55°	3090	3458	3839
60°	3163	3572	4049
65°	3210	3645	4258
70°	3289	3747	4444
75°	3319	3713	4503
80°	3180	3415	4160
85°	2347	3050	3518



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	1.9
10°-20°	225.0	5.6
20°-30°	357.0	8.8
30°-40°	459.2	11.3
40°-50°	520.4	12.9
50°-60°	526.2	13.0
60°-70°	459.8	11.4
70°-80°	309.5	7.6
80°-90°	98.9	2.4
90°-100°	89.4	2.2
100°-110°	159.4	3.9
110°-120°	203.0	5.0
120°-130°	221.5	5.5
130°-140°	159.5	3.9
140°-150°	92.5	2.3
150°-160°	52.6	1.3
160°-170°	28.1	0.7
170°-180°	8.6	0.2
0°-30°	658.6	16.3
0°-40°	1117.8	27.6
0°-60°	2164.5	53.5
0°-90°	3032.6	74.9
90°-120°	451.8	11.2
90°-150°	925.3	22.9
90°-180°	1015.0	25.1
0°-180°	4047.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	805	805	801	805	805	77
15°	787	789	793	803	805	222
25°	748	757	771	791	799	346
35°	692	704	732	761	773	434
45°	619	637	672	714	730	478
55°	526	548	589	631	653	469
65°	403	429	457	510	534	398
75°	255	271	285	328	346	267
85°	61	65	79	89	91	72
90°	2	30	51	65	67	5
95°	30	63	89	105	109	36
105°	130	127	148	176	186	136
115°	204	196	200	204	200	199
125°	218	218	233	287	318	193
135°	168	178	196	235	257	131
145°	115	130	144	162	170	74
155°	95	103	115	119	123	44
165°	89	93	99	103	105	25
175°	87	87	89	89	89	8
180°	85	85	85	85	85	



TEST NUMBER: P213074

CATALOG NUMBER: DSI-WD-40L835-1D-UNV-4-STD-DC-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	805.1	805.1	805.1	805.1	805.1
2.5°	807.1	805.1	801.1	805.1	805.1
5°	805.1	805.1	801.1	805.1	805.1
7.5°	801.1	803.1	799.0	805.1	805.1
10°	799.0	799.0	799.0	805.1	805.1
12.5°	793.0	795.0	795.0	803.1	807.1
15°	786.9	788.9	793.0	803.1	805.1
17.5°	778.8	782.9	788.9	801.1	805.1
20°	768.7	774.8	784.9	799.0	803.1
22.5°	760.6	766.7	776.8	795.0	801.1
25°	748.5	756.6	770.7	790.9	799.0
27.5°	736.3	744.4	762.6	784.9	795.0
30°	724.2	734.3	754.5	778.8	788.9
32.5°	708.0	720.1	744.4	770.7	782.9
35°	691.8	704.0	732.3	760.6	772.7
37.5°	675.6	689.8	718.1	750.5	764.7
40°	657.4	671.6	704.0	740.4	754.5
42.5°	639.2	655.4	687.8	726.2	742.4
45°	619.0	637.2	671.6	714.1	730.3
47.5°	598.8	617.0	653.4	697.9	714.1
50°	578.5	596.8	633.2	677.7	697.9
52.5°	550.2	572.5	612.9	655.4	675.6
55°	526.0	548.2	588.7	631.1	653.4
57.5°	495.6	521.9	560.3	604.8	629.1
60°	469.3	491.6	530.0	576.5	600.8
62.5°	436.9	461.2	493.6	544.2	570.5
65°	402.6	428.9	457.2	509.8	534.0
67.5°	368.2	392.4	420.8	469.3	493.6
70°	333.8	356.0	380.3	428.9	451.1
72.5°	295.3	315.6	335.8	380.3	400.5
75°	254.9	271.1	285.2	327.7	345.9
77.5°	214.4	222.5	234.7	271.1	287.3
80°	163.9	169.9	176.0	206.3	214.4
82.5°	111.3	115.3	123.4	141.6	149.7
85°	60.7	64.7	78.9	89.0	91.0
87.5°	20.2	32.4	46.5	54.6	58.7
90°	2.0	30.3	50.6	64.7	66.8
92.5°	10.1	46.5	68.8	80.9	85.0
95°	30.3	62.7	89.0	105.2	109.2
97.5°	56.6	78.9	109.2	127.4	133.5
100°	80.9	93.1	125.4	147.7	153.7
102.5°	107.2	107.2	139.6	163.9	171.9
105°	129.5	127.4	147.7	176.0	186.1
107.5°	151.7	145.6	153.7	186.1	198.2
110°	171.9	163.9	163.9	188.1	204.3



TEST NUMBER: P213074

CATALOG NUMBER: DSI-WD-40L835-1D-UNV-4-STD-DC-W

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	190.2	180.0	184.1	188.1	202.3
115°	204.3	196.2	200.3	204.3	200.3
117.5°	214.4	208.4	214.4	244.8	238.7
120°	220.5	216.4	224.5	271.1	283.2
122.5°	222.5	220.5	230.6	283.2	309.5
125°	218.5	218.5	232.6	287.3	317.6
127.5°	210.4	214.4	228.6	281.2	315.6
130°	198.2	204.3	222.5	269.0	301.4
132.5°	184.1	192.2	210.4	252.9	281.2
135°	167.9	178.0	196.2	234.7	256.9
137.5°	151.7	163.9	182.1	214.4	234.7
140°	137.6	151.7	167.9	196.2	212.4
142.5°	125.4	139.6	155.8	178.0	190.2
145°	115.3	129.5	143.6	161.8	169.9
147.5°	107.2	121.4	131.5	151.7	157.8
150°	103.2	113.3	125.4	139.6	145.6
152.5°	97.1	107.2	119.4	127.4	133.5
155°	95.1	103.2	115.3	119.4	123.4
157.5°	93.1	99.1	111.3	115.3	117.3
160°	91.0	97.1	107.2	113.3	113.3
162.5°	89.0	95.1	103.2	109.2	111.3
165°	89.0	93.1	99.1	103.2	105.2
167.5°	89.0	91.0	95.1	99.1	99.1
170°	87.0	89.0	93.1	95.1	95.1
172.5°	87.0	89.0	91.0	93.1	91.0
175°	87.0	87.0	89.0	89.0	89.0
177.5°	87.0	87.0	87.0	87.0	85.0
180°	85.0	85.0	85.0	85.0	85.0

(END OF REPORT)