

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: P213065

Luminaire Tested: **DSI-WD-40L840-1D-UNV-4-STD-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213065  
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-40L840-1D-UNV-4-STD-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC, LIGHT LEVEL 3.  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4149.3 lumens  
Efficiency: N/A  
Efficacy: 138.3 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

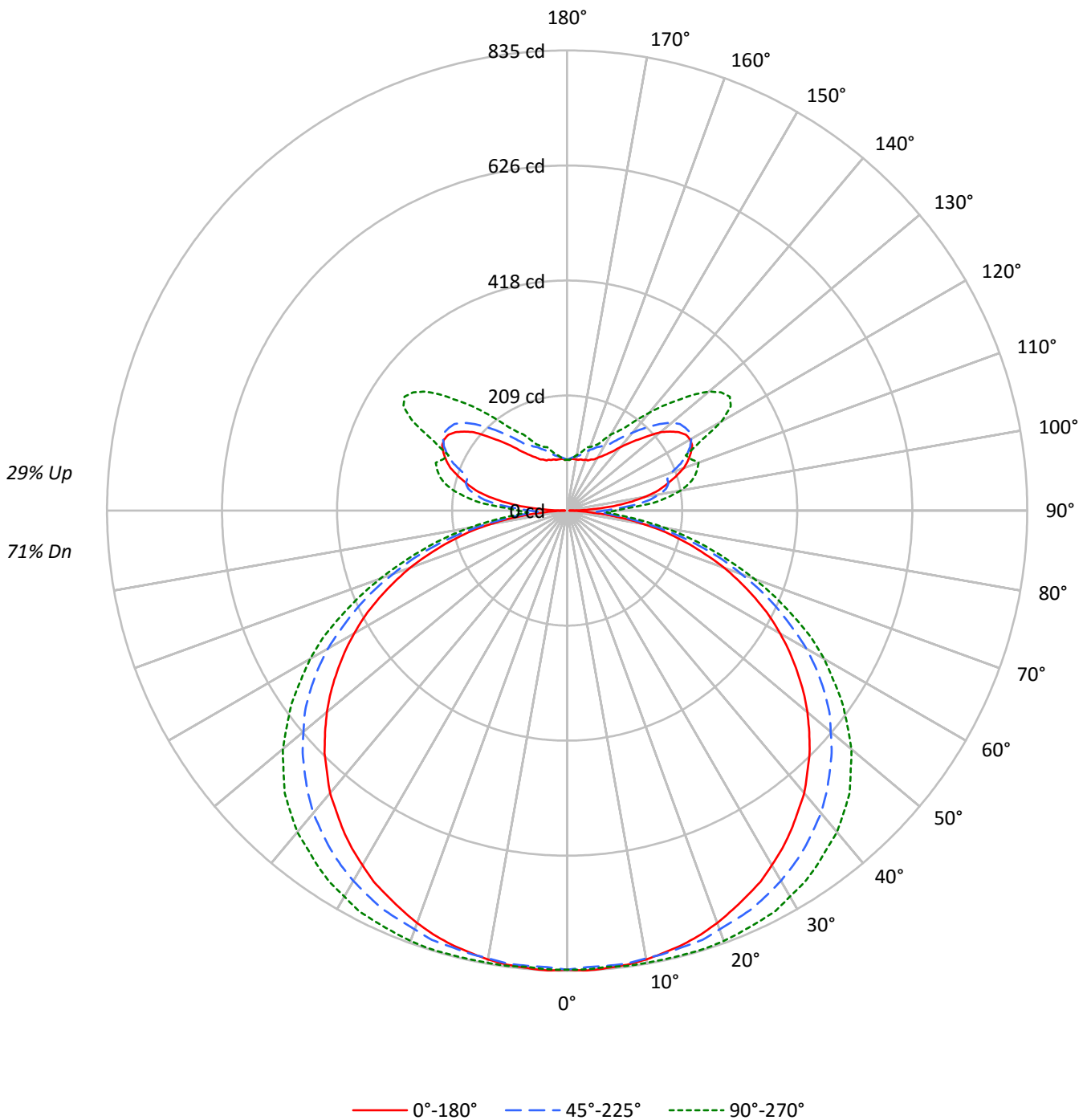
Input Watts (W): 30  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2808	2808	2808
5°	2818	2804	2811
10°	2830	2823	2851
15°	2842	2857	2907
20°	2856	2899	2981
25°	2869	2961	3060
30°	2891	3019	3146
35°	2914	3082	3242
40°	2944	3152	3350
45°	2966	3209	3453
50°	2983	3273	3531
55°	2995	3343	3584
60°	3008	3380	3628
65°	3003	3362	3607
70°	2985	3307	3550
75°	2905	3252	3492
80°	2742	3058	3497
85°	1979	3085	3642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.3	1.9
10°-20°	232.7	5.6
20°-30°	368.1	8.9
30°-40°	469.3	11.3
40°-50°	520.0	12.5
50°-60°	504.1	12.1
60°-70°	414.0	10.0
70°-80°	261.8	6.3
80°-90°	95.7	2.3
90°-100°	127.1	3.1
100°-110°	209.4	5.0
110°-120°	242.8	5.9
120°-130°	251.5	6.1
130°-140°	176.2	4.2
140°-150°	100.6	2.4
150°-160°	57.3	1.4
160°-170°	30.3	0.7
170°-180°	9.2	0.2
0°-30°	680.1	16.4
0°-40°	1149.4	27.7
0°-60°	2173.4	52.4
0°-90°	2944.9	71.0
90°-120°	579.3	14.0
90°-150°	1107.7	26.7
90°-180°	1204.0	29.0
0°-180°	4149.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	833	833	829	831	831	79
15°	815	817	819	831	833	230
25°	772	780	796	817	823	356
35°	708	723	749	778	788	443
45°	622	641	674	710	725	480
55°	510	532	569	598	610	456
65°	377	397	422	444	452	372
75°	223	238	250	258	268	235
85°	51	61	80	92	94	62
90°	4	39	68	82	88	9
95°	78	92	125	147	156	76
105°	188	170	190	225	240	198
115°	248	238	240	235	238	244
125°	248	252	262	324	360	220
135°	182	199	217	258	282	143
145°	125	141	156	176	184	80
155°	102	113	127	131	133	48
165°	96	100	106	113	113	27
175°	94	94	96	96	94	9
180°	92	92	92	92	92	



TEST NUMBER: P213065

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	833.2	833.2	833.2	833.2	833.2
2.5°	835.3	835.3	829.1	833.2	833.2
5°	833.2	833.2	829.1	831.2	831.2
7.5°	831.2	831.2	829.1	833.2	833.2
10°	827.1	827.1	825.0	831.2	833.2
12.5°	820.9	820.9	823.0	831.2	833.2
15°	814.8	816.8	818.9	831.2	833.2
17.5°	806.6	808.6	816.8	829.1	833.2
20°	796.4	800.5	808.6	825.0	831.2
22.5°	784.1	790.2	802.5	820.9	827.1
25°	771.8	780.0	796.4	816.8	823.0
27.5°	759.5	767.7	786.1	810.7	818.9
30°	743.1	753.4	775.9	800.5	808.6
32.5°	726.8	739.0	763.6	790.2	800.5
35°	708.3	722.7	749.3	777.9	788.2
37.5°	687.9	704.2	732.9	763.6	773.8
40°	669.4	683.8	716.5	749.3	761.6
42.5°	644.9	663.3	696.0	728.8	743.1
45°	622.4	640.8	673.5	710.4	724.7
47.5°	595.7	616.2	651.0	687.9	698.1
50°	569.1	589.6	624.4	659.2	673.5
52.5°	540.5	560.9	599.8	630.5	640.8
55°	509.8	532.3	569.1	597.8	610.1
57.5°	479.0	501.6	536.4	563.0	573.2
60°	446.3	466.8	501.6	526.1	538.4
62.5°	413.5	432.0	460.6	487.2	499.5
65°	376.7	397.2	421.7	444.2	452.4
67.5°	339.8	358.3	380.8	399.2	407.4
70°	303.0	319.4	335.7	354.2	360.3
72.5°	262.0	278.4	294.8	305.0	313.2
75°	223.1	237.5	249.8	257.9	268.2
77.5°	184.2	194.5	202.7	219.1	225.2
80°	141.3	149.4	157.6	174.0	180.2
82.5°	96.2	102.4	114.6	129.0	135.1
85°	51.2	61.4	79.8	92.1	94.2
87.5°	20.5	34.8	53.2	65.5	71.7
90°	4.1	38.9	67.6	81.9	88.0
92.5°	34.8	65.5	92.1	106.5	110.5
95°	77.8	92.1	124.9	147.4	155.6
97.5°	112.6	116.7	151.5	176.1	184.2
100°	143.3	131.0	169.9	200.6	208.8
102.5°	169.9	151.5	184.2	215.0	227.2
105°	188.3	169.9	190.4	225.2	239.5
107.5°	206.8	190.4	190.4	233.4	247.7
110°	225.2	208.8	200.6	233.4	253.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	237.5	225.2	223.1	227.2	243.6
115°	247.7	237.5	239.5	235.4	237.5
117.5°	255.9	247.7	251.8	284.6	272.3
120°	257.9	253.9	260.0	313.2	323.5
122.5°	255.9	255.9	264.1	323.5	352.1
125°	247.7	251.8	262.0	323.5	360.3
127.5°	235.4	241.6	257.9	315.3	352.1
130°	221.1	229.3	247.7	298.9	335.7
132.5°	200.6	215.0	233.4	280.5	311.2
135°	182.2	198.6	217.0	257.9	282.5
137.5°	165.8	182.2	200.6	235.4	257.9
140°	149.4	165.8	184.2	212.9	231.3
142.5°	135.1	153.5	169.9	192.4	206.8
145°	124.9	141.3	155.6	176.1	184.2
147.5°	116.7	131.0	143.3	163.8	169.9
150°	110.5	122.8	137.2	151.5	159.7
152.5°	104.4	116.7	131.0	139.2	145.4
155°	102.4	112.6	126.9	131.0	133.1
157.5°	98.3	108.5	120.8	126.9	126.9
160°	98.3	104.4	116.7	122.8	122.8
162.5°	96.2	102.4	110.5	118.7	120.8
165°	96.2	100.3	106.5	112.6	112.6
167.5°	94.2	98.3	102.4	106.5	106.5
170°	94.2	96.2	100.3	102.4	102.4
172.5°	94.2	96.2	98.3	98.3	98.3
175°	94.2	94.2	96.2	96.2	94.2
177.5°	92.1	94.2	94.2	94.2	92.1
180°	92.1	92.1	92.1	92.1	92.1

(END OF REPORT)