

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: P213079

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213079  
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-40L840-1D-UNV-4-STD-DC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH DUST COVER, LIGHT LEVEL 3.  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4095.8 lumens  
Efficiency: N/A  
Efficacy: 136.5 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

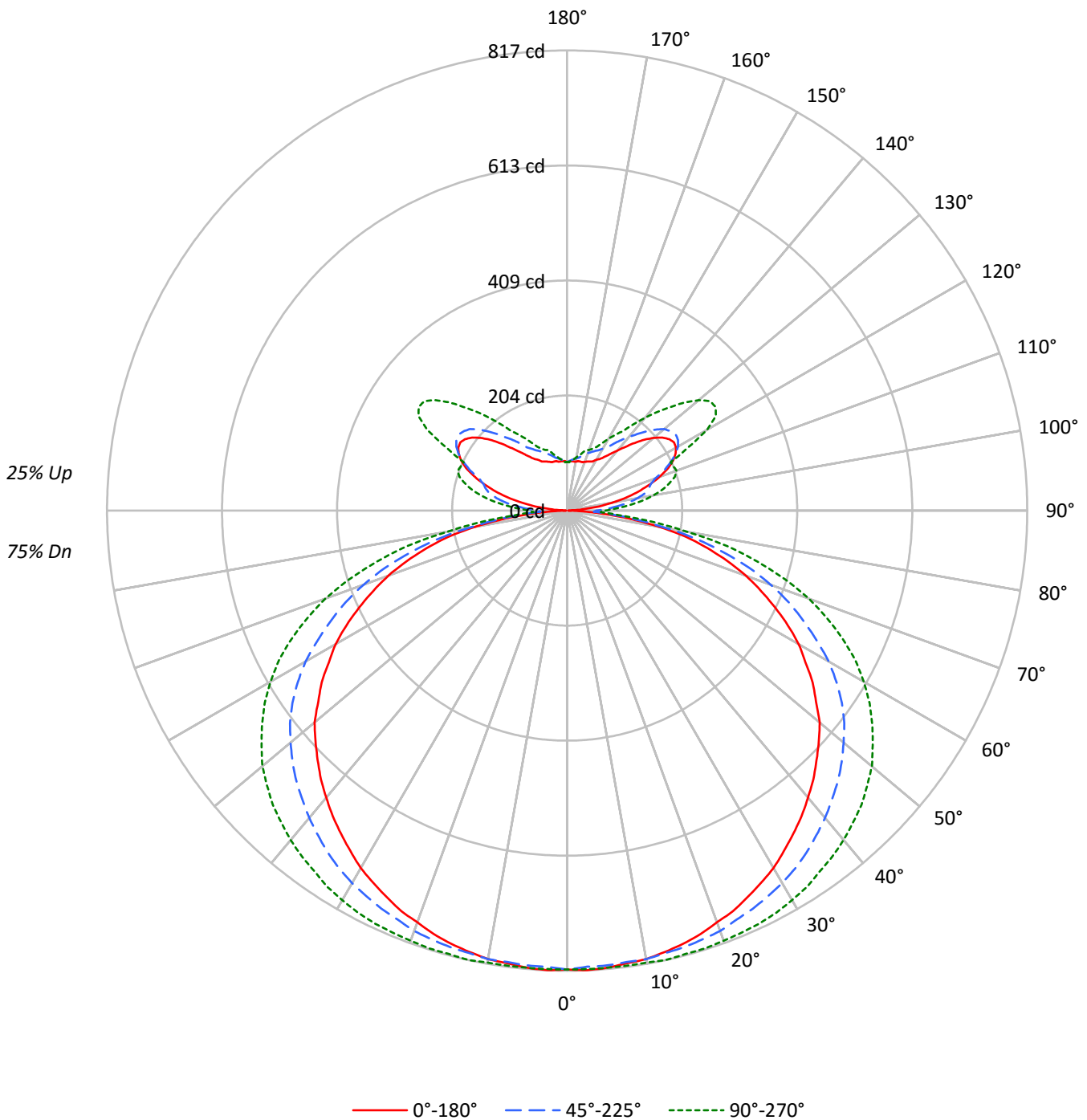
Input Watts (W): 30  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2746	2746	2746
5°	2756	2742	2756
10°	2767	2767	2788
15°	2778	2799	2842
20°	2789	2848	2914
25°	2816	2900	3006
30°	2852	2971	3106
35°	2880	3049	3217
40°	2926	3134	3359
45°	2985	3239	3522
50°	3069	3359	3703
55°	3127	3500	3884
60°	3201	3615	4097
65°	3248	3689	4309
70°	3328	3792	4497
75°	3358	3759	4558
80°	3217	3456	4211
85°	2374	3085	3561



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.6	1.9
10°-20°	227.7	5.6
20°-30°	361.3	8.8
30°-40°	464.7	11.3
40°-50°	526.6	12.9
50°-60°	532.6	13.0
60°-70°	465.3	11.4
70°-80°	313.2	7.6
80°-90°	100.1	2.4
90°-100°	90.5	2.2
100°-110°	161.3	3.9
110°-120°	205.5	5.0
120°-130°	224.1	5.5
130°-140°	161.4	3.9
140°-150°	93.7	2.3
150°-160°	53.2	1.3
160°-170°	28.4	0.7
170°-180°	8.7	0.2
0°-30°	666.6	16.3
0°-40°	1131.3	27.6
0°-60°	2190.5	53.5
0°-90°	3069.1	74.9
90°-120°	457.2	11.2
90°-150°	936.4	22.9
90°-180°	1027.0	25.1
0°-180°	4095.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	815	815	811	815	815	78
15°	796	798	802	813	815	225
25°	758	766	780	800	809	350
35°	700	712	741	770	782	439
45°	626	645	680	723	739	484
55°	532	555	596	639	661	475
65°	407	434	463	516	540	403
75°	258	274	289	332	350	271
85°	61	66	80	90	92	73
90°	2	31	51	66	68	5
95°	31	64	90	106	110	36
105°	131	129	149	178	188	137
115°	207	199	203	207	203	202
125°	221	221	235	291	321	196
135°	170	180	199	238	260	132
145°	117	131	145	164	172	75
155°	96	104	117	121	125	45
165°	90	94	100	104	106	26
175°	88	88	90	90	90	8
180°	86	86	86	86	86	



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CATALOG NUMBER: DSI-WD-40L840-1D-UNV-4-STD-DC-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	814.8	814.8	814.8	814.8	814.8
2.5°	816.8	814.8	810.7	814.8	814.8
5°	814.8	814.8	810.7	814.8	814.8
7.5°	810.7	812.7	808.6	814.8	814.8
10°	808.6	808.6	808.6	814.8	814.8
12.5°	802.5	804.6	804.6	812.7	816.8
15°	796.4	798.4	802.5	812.7	814.8
17.5°	788.2	792.3	798.4	810.7	814.8
20°	777.9	784.1	794.3	808.6	812.7
22.5°	769.7	775.9	786.1	804.6	810.7
25°	757.5	765.7	780.0	800.5	808.6
27.5°	745.2	753.4	771.8	794.3	804.6
30°	732.9	743.1	763.6	788.2	798.4
32.5°	716.5	728.8	753.4	780.0	792.3
35°	700.1	712.4	741.1	769.7	782.0
37.5°	683.8	698.1	726.8	759.5	773.8
40°	665.3	679.7	712.4	749.3	763.6
42.5°	646.9	663.3	696.0	734.9	751.3
45°	626.4	644.9	679.7	722.7	739.0
47.5°	606.0	624.4	661.2	706.3	722.7
50°	585.5	603.9	640.8	685.8	706.3
52.5°	556.8	579.4	620.3	663.3	683.8
55°	532.3	554.8	595.7	638.7	661.2
57.5°	501.6	528.2	567.1	612.1	636.7
60°	475.0	497.5	536.4	583.5	608.0
62.5°	442.2	466.8	499.5	550.7	577.3
65°	407.4	434.0	462.7	515.9	540.5
67.5°	372.6	397.2	425.8	475.0	499.5
70°	337.8	360.3	384.9	434.0	456.5
72.5°	298.9	319.4	339.8	384.9	405.3
75°	257.9	274.3	288.7	331.6	350.1
77.5°	217.0	225.2	237.5	274.3	290.7
80°	165.8	172.0	178.1	208.8	217.0
82.5°	112.6	116.7	124.9	143.3	151.5
85°	61.4	65.5	79.8	90.1	92.1
87.5°	20.5	32.8	47.1	55.3	59.4
90°	2.0	30.7	51.2	65.5	67.6
92.5°	10.2	47.1	69.6	81.9	86.0
95°	30.7	63.5	90.1	106.5	110.5
97.5°	57.3	79.8	110.5	129.0	135.1
100°	81.9	94.2	126.9	149.4	155.6
102.5°	108.5	108.5	141.3	165.8	174.0
105°	131.0	129.0	149.4	178.1	188.3
107.5°	153.5	147.4	155.6	188.3	200.6
110°	174.0	165.8	165.8	190.4	206.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	192.4	182.2	186.3	190.4	204.7
115°	206.8	198.6	202.7	206.8	202.7
117.5°	217.0	210.9	217.0	247.7	241.6
120°	223.1	219.1	227.2	274.3	286.6
122.5°	225.2	223.1	233.4	286.6	313.2
125°	221.1	221.1	235.4	290.7	321.4
127.5°	212.9	217.0	231.3	284.6	319.4
130°	200.6	206.8	225.2	272.3	305.0
132.5°	186.3	194.5	212.9	255.9	284.6
135°	169.9	180.2	198.6	237.5	260.0
137.5°	153.5	165.8	184.2	217.0	237.5
140°	139.2	153.5	169.9	198.6	215.0
142.5°	126.9	141.3	157.6	180.2	192.4
145°	116.7	131.0	145.4	163.8	172.0
147.5°	108.5	122.8	133.1	153.5	159.7
150°	104.4	114.6	126.9	141.3	147.4
152.5°	98.3	108.5	120.8	129.0	135.1
155°	96.2	104.4	116.7	120.8	124.9
157.5°	94.2	100.3	112.6	116.7	118.7
160°	92.1	98.3	108.5	114.6	114.6
162.5°	90.1	96.2	104.4	110.5	112.6
165°	90.1	94.2	100.3	104.4	106.5
167.5°	90.1	92.1	96.2	100.3	100.3
170°	88.0	90.1	94.2	96.2	96.2
172.5°	88.0	90.1	92.1	94.2	92.1
175°	88.0	88.0	90.1	90.1	90.1
177.5°	88.0	88.0	88.0	88.0	86.0
180°	86.0	86.0	86.0	86.0	86.0

(END OF REPORT)