

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: P213009

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-40L840-1D-UNV-4-STD-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC, LIGHT LEVEL 3.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4043.4 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.47 / 1.54
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

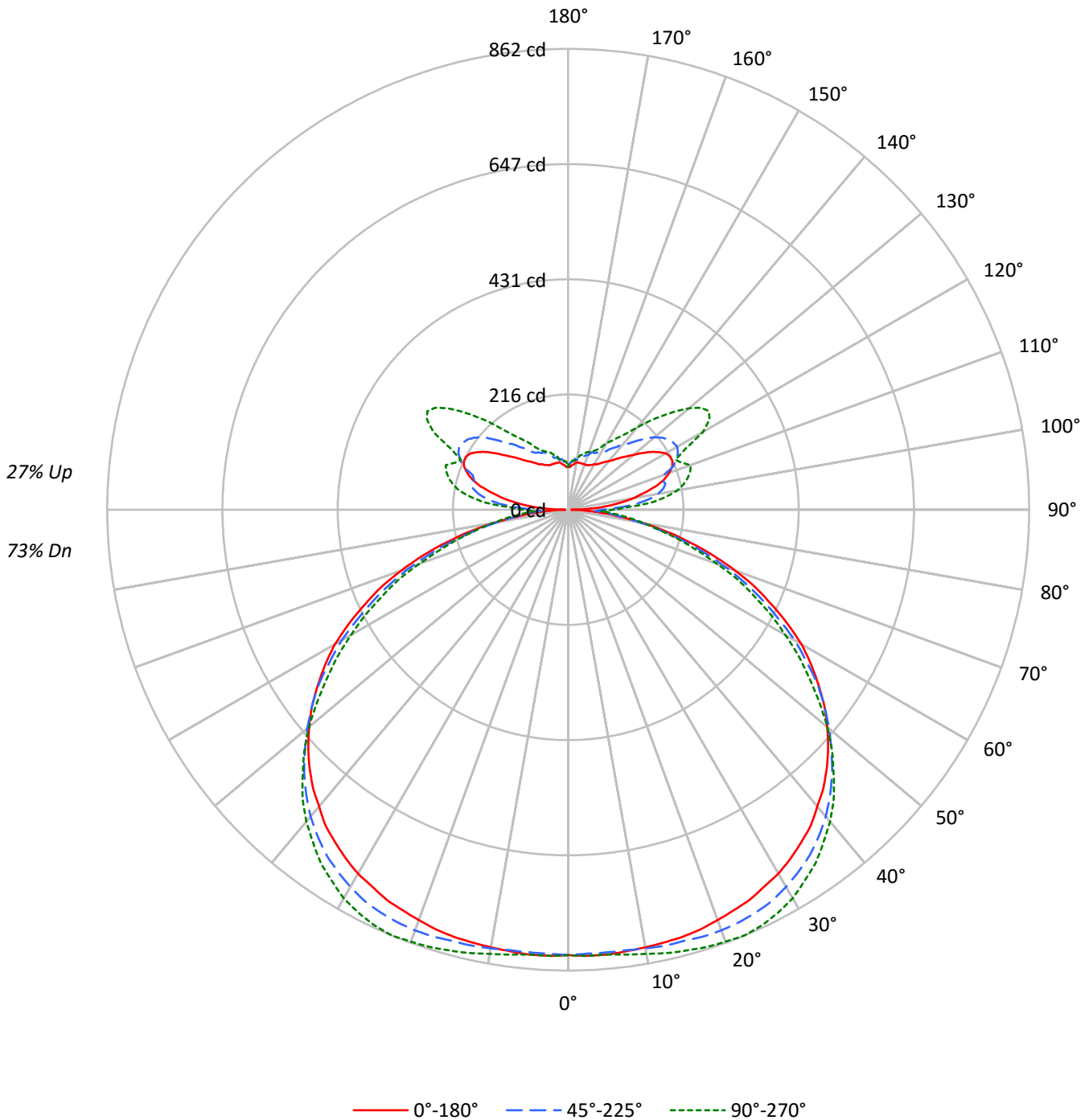
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	96	96	96		86	86	86		77	77	77	73
1	102	97	93	89	97	92	89	85	83	80	78		75	73	70		67	65	64	60
2	92	84	77	72	87	80	74	69	72	67	63		65	61	58		58	55	53	49
3	84	74	65	59	79	70	63	57	63	57	52		57	52	48		51	47	44	41
4	77	65	56	49	72	62	54	48	56	49	44		50	45	41		45	41	37	34
5	70	57	49	42	66	55	47	41	50	43	38		45	39	35		40	36	32	29
6	65	51	43	36	61	49	41	35	45	38	33		40	35	30		36	32	28	25
7	60	46	38	32	56	44	36	31	40	34	29		37	31	27		33	28	25	22
8	55	42	34	28	52	40	32	27	37	30	25		33	28	24		30	26	22	20
9	51	38	30	25	49	37	29	24	34	27	23		31	25	21		28	23	20	18
10	48	35	27	22	46	34	27	22	31	25	20		28	23	19		26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2808	2808	2808
5°	2825	2811	2825
10°	2844	2851	2886
15°	2885	2914	2978
20°	2929	3002	3083
25°	2991	3090	3189
30°	3059	3170	3266
35°	3124	3242	3318
40°	3188	3296	3350
45°	3259	3327	3346
50°	3316	3338	3316
55°	3356	3343	3235
60°	3394	3297	3159
65°	3346	3200	3069
70°	3267	3086	2924
75°	3065	2879	2772
80°	2662	2583	2781
85°	2138	2849	3325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	2.0
10°-20°	237.7	5.9
20°-30°	383.6	9.5
30°-40°	491.6	12.2
40°-50°	536.8	13.3
50°-60°	504.5	12.5
60°-70°	398.0	9.8
70°-80°	235.8	5.8
80°-90°	86.5	2.1
90°-100°	127.2	3.1
100°-110°	200.6	5.0
110°-120°	220.2	5.4
120°-130°	215.2	5.3
130°-140°	147.0	3.6
140°-150°	88.3	2.2
150°-160°	52.9	1.3
160°-170°	28.8	0.7
170°-180°	8.7	0.2
0°-30°	701.0	17.3
0°-40°	1192.6	29.5
0°-60°	2234.0	55.2
0°-90°	2954.4	73.1
90°-120°	548.1	13.6
90°-150°	998.6	24.7
90°-180°	1089.0	26.9
0°-180°	4043.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	835	835	831	835	835	80
15°	827	829	835	850	854	234
25°	805	813	831	852	858	371
35°	760	770	788	805	807	476
45°	684	690	698	704	702	527
55°	571	573	569	559	551	511
65°	420	416	401	393	385	416
75°	235	231	221	213	213	249
85°	55	59	74	84	86	63
90°	6	37	64	78	84	10
95°	70	98	129	152	158	67
105°	170	162	188	221	231	176
115°	215	207	223	221	221	210
125°	188	201	229	289	321	168
135°	137	154	182	223	248	107
145°	106	123	139	158	166	67
155°	92	104	117	121	123	43
165°	90	98	100	104	106	26
175°	84	92	90	92	92	8
180°	80	80	80	80	80	



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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	831.2	835.3	835.3
5°	835.3	835.3	831.2	835.3	835.3
7.5°	833.2	833.2	831.2	839.4	839.4
10°	831.2	833.2	833.2	843.5	843.5
12.5°	829.1	831.2	835.3	845.5	849.6
15°	827.1	829.1	835.3	849.6	853.7
17.5°	823.0	827.1	837.3	853.7	857.8
20°	816.8	823.0	837.3	855.7	859.8
22.5°	810.7	818.9	835.3	853.7	861.9
25°	804.6	812.7	831.2	851.6	857.8
27.5°	794.3	804.6	825.0	843.5	849.6
30°	786.1	796.4	814.8	833.2	839.4
32.5°	773.8	784.1	802.5	818.9	823.0
35°	759.5	769.8	788.2	804.6	806.6
37.5°	745.2	755.4	769.8	782.0	784.1
40°	724.7	734.9	749.3	757.5	761.6
42.5°	706.3	716.5	724.7	732.9	734.9
45°	683.8	689.9	698.1	704.2	702.2
47.5°	659.2	665.3	667.4	673.5	669.4
50°	632.6	636.7	636.7	636.7	632.6
52.5°	603.9	603.9	603.9	597.8	591.6
55°	571.2	573.2	569.1	558.9	550.7
57.5°	538.4	538.4	528.2	517.9	511.8
60°	503.6	497.5	489.3	475.0	468.8
62.5°	462.7	456.5	444.2	434.0	427.9
65°	419.7	415.6	401.3	393.1	384.9
67.5°	378.7	372.6	358.3	346.0	343.9
70°	331.6	327.6	313.2	303.0	296.8
72.5°	284.6	278.4	266.1	257.9	251.8
75°	235.4	231.3	221.1	212.9	212.9
77.5°	188.3	184.2	174.0	174.0	174.0
80°	137.2	137.2	133.1	139.2	143.3
82.5°	94.2	94.2	100.3	110.5	112.6
85°	55.3	59.4	73.7	83.9	86.0
87.5°	24.6	34.8	51.2	59.4	61.4
90°	6.1	36.8	63.5	77.8	83.9
92.5°	36.8	69.6	96.2	106.5	110.5
95°	69.6	98.3	129.0	151.5	157.6
97.5°	96.2	116.7	153.5	178.1	184.2
100°	122.8	124.9	169.9	198.6	206.8
102.5°	145.4	143.3	182.2	210.9	221.1
105°	169.9	161.7	188.3	221.1	231.3
107.5°	188.3	176.1	184.2	229.3	239.5
110°	200.6	190.4	190.4	223.1	243.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	210.9	200.6	212.9	212.9	229.3
115°	215.0	206.8	223.1	221.1	221.1
117.5°	215.0	210.9	231.3	260.0	247.7
120°	210.9	212.9	235.4	284.6	290.7
122.5°	200.6	208.8	233.4	292.8	313.2
125°	188.3	200.6	229.3	288.7	321.4
127.5°	174.0	190.4	221.1	280.5	313.2
130°	159.7	178.1	210.9	264.1	294.8
132.5°	147.4	167.9	196.5	243.6	272.3
135°	137.2	153.5	182.2	223.1	247.7
137.5°	126.9	145.4	167.9	204.7	225.2
140°	118.7	139.2	159.7	184.2	200.6
142.5°	112.6	131.0	147.4	167.9	180.2
145°	106.5	122.8	139.2	157.6	165.8
147.5°	100.3	118.7	129.0	147.4	153.5
150°	98.3	112.6	122.8	137.2	143.3
152.5°	94.2	106.5	120.8	129.0	131.0
155°	92.1	104.4	116.7	120.8	122.8
157.5°	90.1	104.4	116.7	116.7	118.7
160°	90.1	98.3	108.5	116.7	114.6
162.5°	90.1	96.2	106.5	114.6	112.6
165°	90.1	98.3	100.3	104.4	106.5
167.5°	90.1	96.2	100.3	102.4	104.4
170°	90.1	92.1	94.2	100.3	96.2
172.5°	86.0	92.1	96.2	94.2	92.1
175°	83.9	92.1	90.1	92.1	92.1
177.5°	79.8	83.9	88.0	90.1	90.1
180°	79.8	79.8	79.8	79.8	79.8

(END OF REPORT)