

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: P213004

Luminaire Tested: **DSI-WS-40L830-1D-UNV-4-STD-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213004
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-40L830-1D-UNV-4-STD-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC, LIGHT LEVEL 3.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3814.6 lumens
Efficiency: N/A
Efficacy: 127.2 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

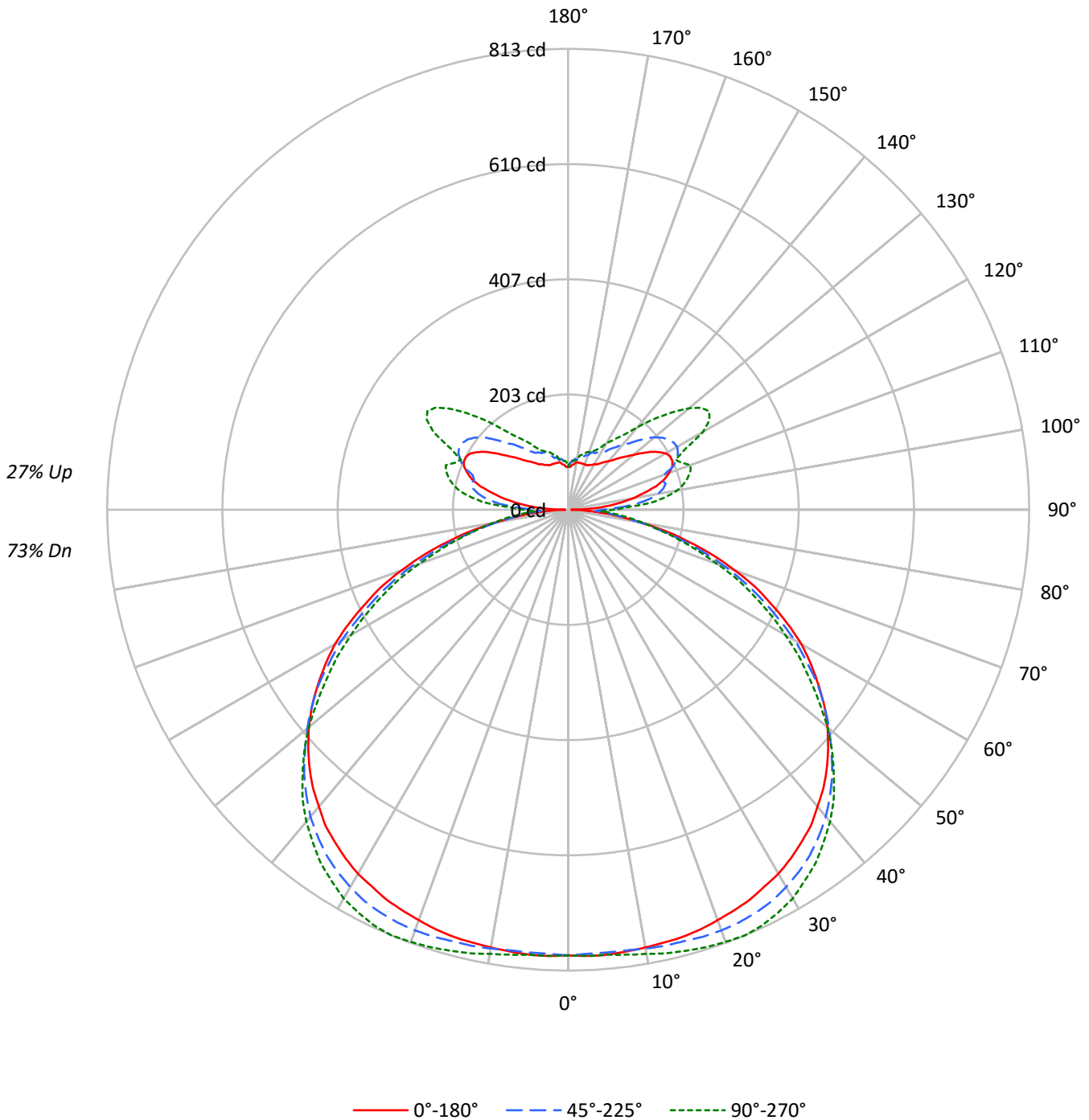
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2649	2649	2649
5°	2665	2652	2665
10°	2683	2690	2723
15°	2722	2749	2810
20°	2763	2832	2909
25°	2822	2915	3009
30°	2885	2991	3081
35°	2947	3059	3130
40°	3007	3109	3160
45°	3074	3138	3157
50°	3129	3148	3129
55°	3165	3154	3052
60°	3202	3111	2981
65°	3157	3018	2895
70°	3083	2911	2759
75°	2892	2716	2616
80°	2511	2435	2624
85°	2014	2687	3135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	2.0
10°-20°	224.3	5.9
20°-30°	361.9	9.5
30°-40°	463.8	12.2
40°-50°	506.4	13.3
50°-60°	476.0	12.5
60°-70°	375.5	9.8
70°-80°	222.5	5.8
80°-90°	81.6	2.1
90°-100°	120.0	3.1
100°-110°	189.3	5.0
110°-120°	207.8	5.4
120°-130°	203.0	5.3
130°-140°	138.7	3.6
140°-150°	83.3	2.2
150°-160°	49.9	1.3
160°-170°	27.2	0.7
170°-180°	8.2	0.2
0°-30°	661.3	17.3
0°-40°	1125.1	29.5
0°-60°	2107.5	55.2
0°-90°	2787.1	73.1
90°-120°	517.1	13.6
90°-150°	942.1	24.7
90°-180°	1027.0	26.9
0°-180°	3814.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	788	788	784	788	788	75
15°	780	782	788	802	805	221
25°	759	767	784	803	809	350
35°	716	726	744	759	761	449
45°	645	651	659	664	662	497
55°	539	541	537	527	520	482
65°	396	392	378	371	363	392
75°	222	218	209	201	201	235
85°	52	56	70	79	81	59
90°	6	35	60	73	79	10
95°	66	93	122	143	149	63
105°	160	153	178	209	218	166
115°	203	195	210	209	209	198
125°	178	189	216	272	303	159
135°	129	145	172	210	234	101
145°	100	116	131	149	156	64
155°	87	98	110	114	116	41
165°	85	93	95	98	100	24
175°	79	87	85	87	87	8
180°	75	75	75	75	75	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	786.1	786.1	786.1	786.1	786.1
2.5°	788.0	788.0	784.1	788.0	788.0
5°	788.0	788.0	784.1	788.0	788.0
7.5°	786.1	786.1	784.1	791.8	791.8
10°	784.1	786.1	786.1	795.7	795.7
12.5°	782.2	784.1	788.0	797.6	801.5
15°	780.3	782.2	788.0	801.5	805.4
17.5°	776.4	780.3	789.9	805.4	809.2
20°	770.6	776.4	789.9	807.3	811.2
22.5°	764.8	772.5	788.0	805.4	813.1
25°	759.0	766.7	784.1	803.4	809.2
27.5°	749.4	759.0	778.3	795.7	801.5
30°	741.6	751.3	768.7	786.1	791.8
32.5°	730.0	739.7	757.1	772.5	776.4
35°	716.5	726.2	743.6	759.0	760.9
37.5°	703.0	712.7	726.2	737.8	739.7
40°	683.7	693.3	706.9	714.6	718.5
42.5°	666.3	676.0	683.7	691.4	693.3
45°	645.1	650.9	658.6	664.4	662.4
47.5°	621.9	627.7	629.6	635.4	631.5
50°	596.8	600.6	600.6	600.6	596.8
52.5°	569.7	569.7	569.7	563.9	558.2
55°	538.8	540.8	536.9	527.3	519.5
57.5°	507.9	507.9	498.3	488.6	482.8
60°	475.1	469.3	461.6	448.1	442.3
62.5°	436.5	430.7	419.1	409.4	403.6
65°	395.9	392.1	378.5	370.8	363.1
67.5°	357.3	351.5	338.0	326.4	324.5
70°	312.9	309.0	295.5	285.8	280.0
72.5°	268.5	262.7	251.1	243.3	237.6
75°	222.1	218.2	208.6	200.9	200.9
77.5°	177.7	173.8	164.2	164.2	164.2
80°	129.4	129.4	125.5	131.3	135.2
82.5°	88.8	88.8	94.6	104.3	106.2
85°	52.1	56.0	69.5	79.2	81.1
87.5°	23.2	32.8	48.3	56.0	57.9
90°	5.8	34.8	59.9	73.4	79.2
92.5°	34.8	65.7	90.8	100.4	104.3
95°	65.7	92.7	121.7	142.9	148.7
97.5°	90.8	110.1	144.8	168.0	173.8
100°	115.9	117.8	160.3	187.3	195.1
102.5°	137.1	135.2	171.9	198.9	208.6
105°	160.3	152.6	177.7	208.6	218.2
107.5°	177.7	166.1	173.8	216.3	226.0
110°	189.3	179.6	179.6	210.5	229.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	198.9	189.3	200.9	200.9	216.3
115°	202.8	195.1	210.5	208.6	208.6
117.5°	202.8	198.9	218.2	245.3	233.7
120°	198.9	200.9	222.1	268.5	274.2
122.5°	189.3	197.0	220.2	276.2	295.5
125°	177.7	189.3	216.3	272.3	303.2
127.5°	164.2	179.6	208.6	264.6	295.5
130°	150.6	168.0	198.9	249.1	278.1
132.5°	139.1	158.4	185.4	229.8	256.9
135°	129.4	144.8	171.9	210.5	233.7
137.5°	119.7	137.1	158.4	193.1	212.4
140°	112.0	131.3	150.6	173.8	189.3
142.5°	106.2	123.6	139.1	158.4	170.0
145°	100.4	115.9	131.3	148.7	156.4
147.5°	94.6	112.0	121.7	139.1	144.8
150°	92.7	106.2	115.9	129.4	135.2
152.5°	88.8	100.4	113.9	121.7	123.6
155°	86.9	98.5	110.1	113.9	115.9
157.5°	85.0	98.5	110.1	110.1	112.0
160°	85.0	92.7	102.4	110.1	108.2
162.5°	85.0	90.8	100.4	108.2	106.2
165°	85.0	92.7	94.6	98.5	100.4
167.5°	85.0	90.8	94.6	96.6	98.5
170°	85.0	86.9	88.8	94.6	90.8
172.5°	81.1	86.9	90.8	88.8	86.9
175°	79.2	86.9	85.0	86.9	86.9
177.5°	75.3	79.2	83.0	85.0	85.0
180°	75.3	75.3	75.3	75.3	75.3

(END OF REPORT)