

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: P213055

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213055
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-40L830-1D-UNV-4-STD-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC, LIGHT LEVEL 3.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3914.5 lumens
Efficiency: N/A
Efficacy: 130.5 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

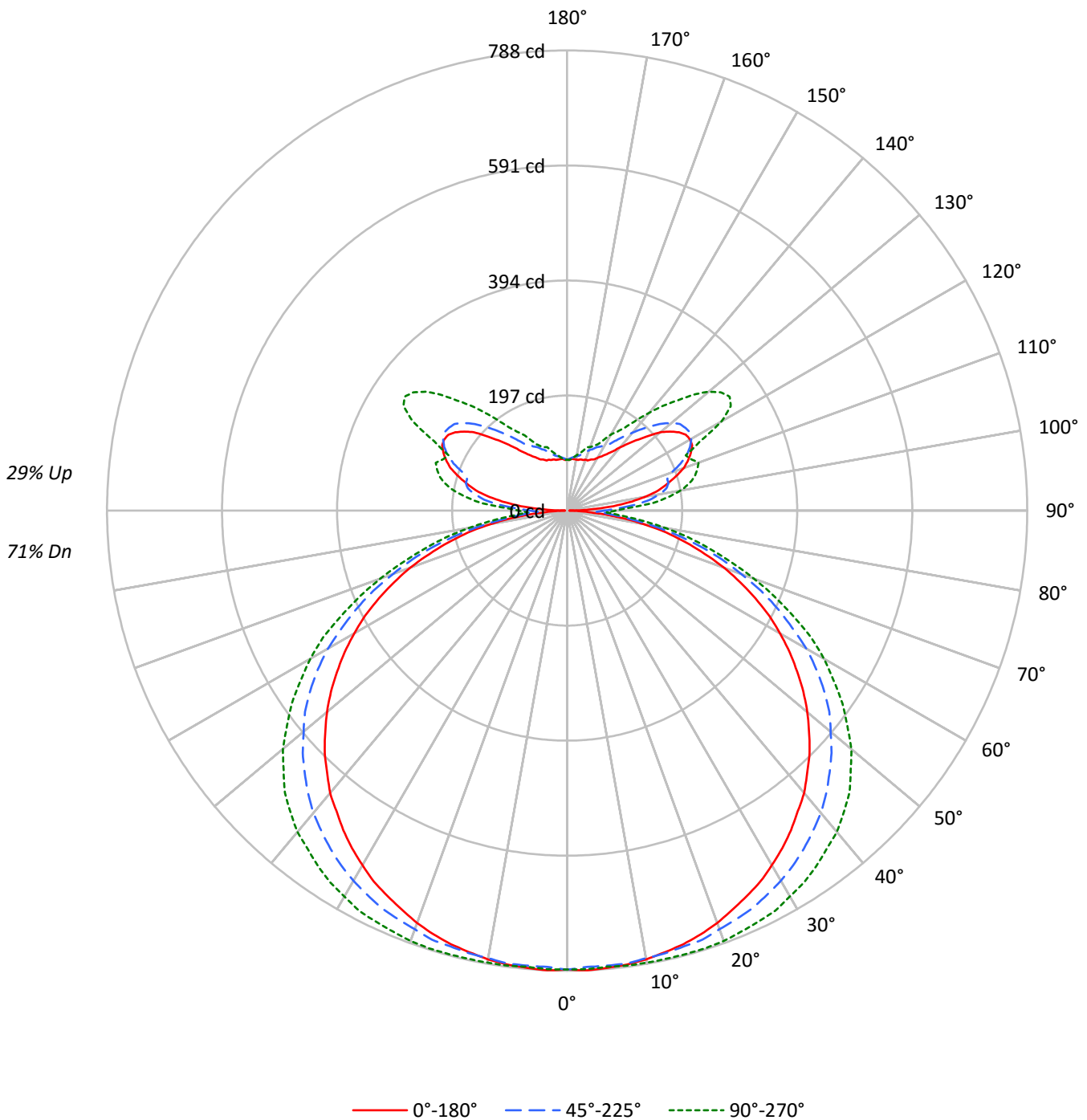
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	101	97	92	88	96	91	88	84	82	79	76	73	71	69	65	63	62	65	63	62	58	
2	92	83	77	71	86	79	73	68	71	66	62	63	59	56	56	53	51	56	53	51	47	
3	83	73	65	58	78	69	62	56	62	56	51	55	51	47	49	45	42	49	45	42	39	
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	43	39	36	43	39	36	33	
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	39	34	31	28	
6	64	51	42	36	60	48	40	34	44	37	32	39	33	29	35	30	27	35	30	27	24	
7	59	46	37	31	55	43	36	30	39	33	28	35	30	26	32	27	24	32	27	24	21	
8	55	41	33	27	52	39	32	26	36	29	25	32	27	23	29	24	21	29	24	21	19	
9	51	38	30	24	48	36	29	23	33	26	22	30	24	20	27	22	19	27	22	19	17	
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	25	20	17	15	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2648	2648	2648
5°	2659	2646	2652
10°	2670	2663	2689
15°	2682	2695	2742
20°	2694	2736	2812
25°	2707	2793	2887
30°	2728	2848	2968
35°	2749	2908	3059
40°	2778	2973	3160
45°	2798	3028	3258
50°	2814	3088	3331
55°	2825	3154	3381
60°	2837	3189	3423
65°	2834	3172	3403
70°	2816	3120	3349
75°	2741	3067	3294
80°	2587	2885	3299
85°	1867	2911	3433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	1.9
10°-20°	219.5	5.6
20°-30°	347.3	8.9
30°-40°	442.7	11.3
40°-50°	490.5	12.5
50°-60°	475.5	12.1
60°-70°	390.6	10.0
70°-80°	246.9	6.3
80°-90°	90.3	2.3
90°-100°	119.9	3.1
100°-110°	197.6	5.0
110°-120°	229.0	5.9
120°-130°	237.3	6.1
130°-140°	166.3	4.2
140°-150°	94.9	2.4
150°-160°	54.0	1.4
160°-170°	28.6	0.7
170°-180°	8.7	0.2
0°-30°	641.6	16.4
0°-40°	1084.4	27.7
0°-60°	2050.4	52.4
0°-90°	2778.2	71.0
90°-120°	546.5	14.0
90°-150°	1045.0	26.7
90°-180°	1136.0	29.0
0°-180°	3914.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	786	786	782	784	784	75
15°	769	771	772	784	786	217
25°	728	736	751	771	776	336
35°	668	682	707	734	744	418
45°	587	604	635	670	684	452
55°	481	502	537	564	576	430
65°	355	375	398	419	427	351
75°	210	224	236	243	253	222
85°	48	58	75	87	89	59
90°	4	37	64	77	83	8
95°	73	87	118	139	147	72
105°	178	160	180	212	226	187
115°	234	224	226	222	224	230
125°	234	238	247	305	340	207
135°	172	187	205	243	266	135
145°	118	133	147	166	174	76
155°	97	106	120	124	126	45
165°	91	95	100	106	106	26
175°	89	89	91	91	89	8
180°	87	87	87	87	87	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	786.0	786.0	786.0	786.0	786.0
2.5°	788.0	788.0	782.2	786.0	786.0
5°	786.0	786.0	782.2	784.1	784.1
7.5°	784.1	784.1	782.2	786.0	786.0
10°	780.3	780.3	778.3	784.1	786.0
12.5°	774.5	774.5	776.4	784.1	786.0
15°	768.7	770.6	772.5	784.1	786.0
17.5°	760.9	762.9	770.6	782.2	786.0
20°	751.3	755.1	762.9	778.3	784.1
22.5°	739.7	745.5	757.1	774.5	780.3
25°	728.1	735.8	751.3	770.6	776.4
27.5°	716.5	724.2	741.6	764.8	772.5
30°	701.1	710.7	732.0	755.1	762.9
32.5°	685.6	697.2	720.4	745.5	755.1
35°	668.2	681.8	706.9	733.9	743.6
37.5°	648.9	664.4	691.4	720.4	730.0
40°	631.5	645.1	676.0	706.9	718.5
42.5°	608.4	625.7	656.7	687.6	701.1
45°	587.1	604.5	635.4	670.2	683.7
47.5°	562.0	581.3	614.2	648.9	658.6
50°	536.9	556.2	589.1	621.9	635.4
52.5°	509.9	529.2	565.9	594.8	604.5
55°	480.9	502.1	536.9	563.9	575.5
57.5°	451.9	473.2	506.0	531.1	540.8
60°	421.0	440.3	473.2	496.4	507.9
62.5°	390.1	407.5	434.5	459.7	471.2
65°	355.4	374.7	397.9	419.1	426.8
67.5°	320.6	338.0	359.2	376.6	384.3
70°	285.8	301.3	316.7	334.1	339.9
72.5°	247.2	262.7	278.1	287.8	295.5
75°	210.5	224.0	235.6	243.3	253.0
77.5°	173.8	183.5	191.2	206.7	212.4
80°	133.3	141.0	148.7	164.2	170.0
82.5°	90.8	96.6	108.2	121.7	127.5
85°	48.3	57.9	75.3	86.9	88.8
87.5°	19.3	32.8	50.2	61.8	67.6
90°	3.9	36.7	63.7	77.3	83.0
92.5°	32.8	61.8	86.9	100.4	104.3
95°	73.4	86.9	117.8	139.1	146.8
97.5°	106.2	110.1	142.9	166.1	173.8
100°	135.2	123.6	160.3	189.3	197.0
102.5°	160.3	142.9	173.8	202.8	214.4
105°	177.7	160.3	179.6	212.4	226.0
107.5°	195.1	179.6	179.6	220.2	233.7
110°	212.4	197.0	189.3	220.2	239.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.0	212.4	210.5	214.4	229.8
115°	233.7	224.0	226.0	222.1	224.0
117.5°	241.4	233.7	237.6	268.5	256.9
120°	243.3	239.5	245.3	295.5	305.1
122.5°	241.4	241.4	249.1	305.1	332.2
125°	233.7	237.6	247.2	305.1	339.9
127.5°	222.1	227.9	243.3	297.4	332.2
130°	208.6	216.3	233.7	282.0	316.7
132.5°	189.3	202.8	220.2	264.6	293.6
135°	171.9	187.3	204.7	243.3	266.5
137.5°	156.4	171.9	189.3	222.1	243.3
140°	141.0	156.4	173.8	200.9	218.2
142.5°	127.5	144.8	160.3	181.5	195.1
145°	117.8	133.3	146.8	166.1	173.8
147.5°	110.1	123.6	135.2	154.5	160.3
150°	104.3	115.9	129.4	142.9	150.6
152.5°	98.5	110.1	123.6	131.3	137.1
155°	96.6	106.2	119.7	123.6	125.5
157.5°	92.7	102.4	113.9	119.7	119.7
160°	92.7	98.5	110.1	115.9	115.9
162.5°	90.8	96.6	104.3	112.0	113.9
165°	90.8	94.6	100.4	106.2	106.2
167.5°	88.8	92.7	96.6	100.4	100.4
170°	88.8	90.8	94.6	96.6	96.6
172.5°	88.8	90.8	92.7	92.7	92.7
175°	88.8	88.8	90.8	90.8	88.8
177.5°	86.9	88.8	88.8	88.8	86.9
180°	86.9	86.9	86.9	86.9	86.9

(END OF REPORT)