

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: P213036

Luminaire Tested: **DSI-WS-30L840-1D-UNV-4-STD-FC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35730)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-30L840-1D-UNV-4-STD-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH FROSTED COVER, LIGHT LEVEL 2.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2993.6 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.45 / 1.53
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

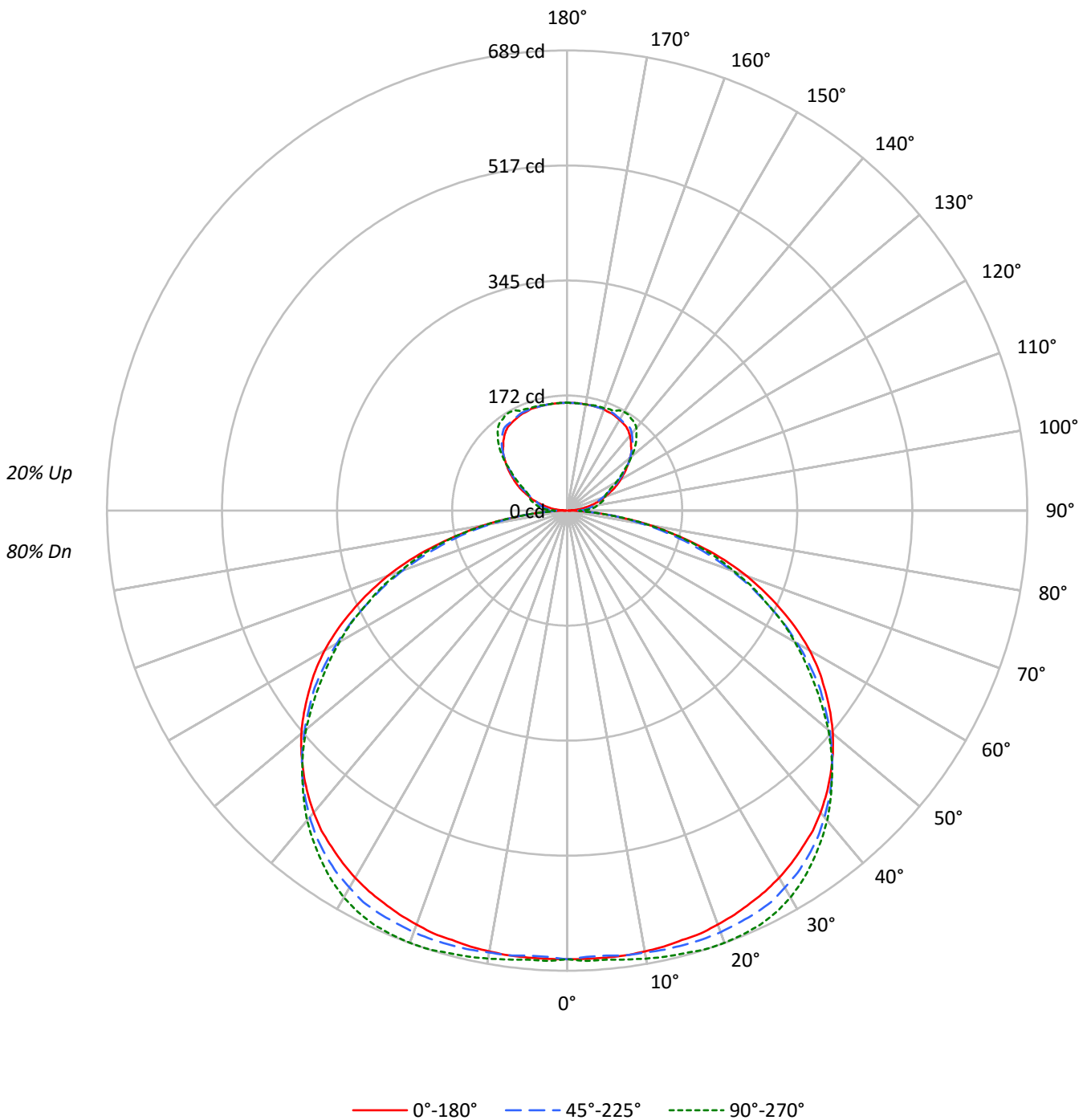
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84	84	84	84	80
1	104	99	94	90	99	95	91	87	87	84	81	80	77	75	73	71	69	69	69	69	66
2	94	85	78	73	89	82	76	70	75	70	66	69	65	61	63	60	57	57	57	57	54
3	85	74	66	60	81	71	64	58	66	59	54	60	55	51	55	51	48	48	48	48	45
4	78	65	57	50	74	63	55	48	58	51	46	53	48	43	49	44	40	40	40	40	38
5	71	58	49	42	67	56	47	41	51	44	39	47	41	37	44	39	35	35	35	35	32
6	65	52	43	37	62	50	42	36	46	39	34	43	37	32	39	34	30	30	30	30	28
7	60	47	38	32	57	45	37	31	42	35	30	39	33	28	36	31	27	27	27	27	24
8	56	43	34	28	53	41	33	28	38	31	26	35	29	25	33	27	24	24	24	24	21
9	52	39	31	25	50	37	30	25	35	28	23	32	26	22	30	25	21	21	21	21	19
10	49	36	28	23	47	34	27	22	32	26	21	30	24	20	28	23	19	19	19	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2264	2264	2264
5°	2272	2262	2283
10°	2293	2299	2330
15°	2322	2349	2392
20°	2365	2409	2470
25°	2412	2475	2543
30°	2470	2536	2602
35°	2529	2593	2637
40°	2597	2637	2664
45°	2660	2674	2674
50°	2724	2692	2676
55°	2773	2709	2655
60°	2828	2684	2653
65°	2831	2635	2635
70°	2818	2575	2621
75°	2682	2462	2603
80°	2447	2237	2416
85°	1902	1902	1782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	2.1
10°-20°	191.4	6.4
20°-30°	307.6	10.3
30°-40°	394.0	13.2
40°-50°	432.5	14.4
50°-60°	412.4	13.8
60°-70°	334.5	11.2
70°-80°	207.3	6.9
80°-90°	59.7	2.0
90°-100°	30.5	1.0
100°-110°	51.1	1.7
110°-120°	71.6	2.4
120°-130°	94.5	3.2
130°-140°	107.1	3.6
140°-150°	99.2	3.3
150°-160°	74.8	2.5
160°-170°	45.9	1.5
170°-180°	15.4	0.5
0°-30°	563.3	18.8
0°-40°	957.3	32.0
0°-60°	1802.1	60.2
0°-90°	2403.6	80.3
90°-120°	153.1	5.1
90°-150°	454.0	15.2
90°-180°	590.0	19.7
0°-180°	2993.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	672	672	669	675	675	64
15°	666	669	673	683	686	189
25°	649	655	666	680	684	300
35°	615	621	630	638	641	385
45°	558	561	561	563	561	431
55°	472	469	461	455	452	422
65°	355	347	330	332	330	351
75°	206	197	189	198	200	217
85°	49	48	49	49	46	56
90°	2	11	15	18	18	4
95°	14	23	31	37	38	15
105°	45	45	46	54	55	47
115°	77	75	71	68	68	76
125°	108	106	104	104	103	96
135°	135	134	138	144	146	105
145°	154	152	157	164	168	96
155°	160	160	161	163	164	74
165°	161	161	161	163	163	46
175°	161	161	161	161	161	15
180°	161	161	161	161	161	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	671.8	671.8	671.8	671.8	671.8
2.5°	671.8	671.8	668.8	673.4	674.9
5°	671.8	671.8	668.8	674.9	674.9
7.5°	671.8	671.8	671.8	676.4	678.0
10°	670.3	671.8	671.8	679.5	681.1
12.5°	668.8	671.8	673.4	681.1	684.1
15°	665.7	668.8	673.4	682.6	685.7
17.5°	664.1	667.2	673.4	685.7	688.7
20°	659.5	664.1	671.8	684.1	688.7
22.5°	654.9	659.5	668.8	682.6	687.2
25°	648.8	654.9	665.7	679.5	684.1
27.5°	642.6	648.8	661.1	673.4	678.0
30°	634.9	641.1	651.8	664.1	668.8
32.5°	625.7	631.9	642.6	653.4	656.5
35°	614.9	621.1	630.3	638.0	641.1
37.5°	604.2	608.8	616.5	622.6	624.2
40°	590.4	595.0	599.6	604.2	605.7
42.5°	575.0	579.6	581.1	584.2	584.2
45°	558.1	561.1	561.1	562.7	561.1
47.5°	539.6	541.2	538.1	538.1	536.5
50°	519.6	519.6	513.5	511.9	510.4
52.5°	496.6	495.0	487.3	484.3	481.2
55°	472.0	468.9	461.2	455.1	452.0
57.5°	447.4	442.8	430.5	424.3	422.8
60°	419.7	413.6	398.2	393.6	393.6
62.5°	389.0	381.3	365.9	362.8	364.4
65°	355.1	347.4	330.5	332.1	330.5
67.5°	321.3	312.1	296.7	299.8	301.3
70°	286.0	276.7	261.4	266.0	266.0
72.5°	247.5	236.8	224.5	233.7	235.2
75°	206.0	196.8	189.1	198.3	199.9
77.5°	164.5	158.3	152.2	163.0	164.5
80°	126.1	118.4	115.3	124.5	124.5
82.5°	83.0	81.5	83.0	87.6	86.1
85°	49.2	47.7	49.2	49.2	46.1
87.5°	21.5	21.5	20.0	16.9	18.4
90°	1.5	10.8	15.4	18.4	18.4
92.5°	7.7	18.4	26.1	29.2	29.2
95°	13.8	23.1	30.7	36.9	38.4
97.5°	21.5	26.1	35.4	41.5	43.0
100°	29.2	29.2	40.0	44.6	46.1
102.5°	36.9	36.9	43.0	49.2	50.7
105°	44.6	44.6	46.1	53.8	55.3
107.5°	53.8	52.3	49.2	55.3	58.4
110°	60.0	60.0	56.9	58.4	60.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	67.6	67.6	63.0	61.5	63.0
115°	76.9	75.3	70.7	67.6	67.6
117.5°	84.6	83.0	79.9	76.9	75.3
120°	92.2	90.7	87.6	86.1	84.6
122.5°	99.9	99.9	96.9	95.3	93.8
125°	107.6	106.1	104.5	104.5	103.0
127.5°	115.3	113.8	115.3	115.3	115.3
130°	123.0	119.9	123.0	124.5	126.1
132.5°	130.7	127.6	130.7	135.3	136.8
135°	135.3	133.8	138.4	144.5	146.1
137.5°	141.4	139.9	144.5	152.2	153.7
140°	146.1	146.1	150.7	158.3	161.4
142.5°	150.7	149.1	155.3	161.4	166.0
145°	153.7	152.2	156.8	164.5	167.6
147.5°	155.3	155.3	156.8	167.6	170.6
150°	156.8	156.8	158.3	167.6	170.6
152.5°	158.3	158.3	159.9	164.5	169.1
155°	159.9	159.9	161.4	163.0	164.5
157.5°	159.9	159.9	161.4	163.0	164.5
160°	161.4	161.4	161.4	163.0	163.0
162.5°	161.4	161.4	161.4	163.0	163.0
165°	161.4	161.4	161.4	163.0	163.0
167.5°	161.4	161.4	161.4	161.4	161.4
170°	161.4	161.4	161.4	161.4	161.4
172.5°	161.4	161.4	161.4	161.4	161.4
175°	161.4	161.4	161.4	161.4	161.4
177.5°	161.4	161.4	161.4	161.4	161.4
180°	161.4	161.4	161.4	161.4	161.4

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