

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: P213005

Luminaire Tested: **DSI-WS-50L830-1D-UNV-4-STD-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213005
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-50L830-1D-UNV-4-STD-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC, LIGHT LEVEL 4.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4811.2 lumens
Efficiency: N/A
Efficacy: 127.3 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

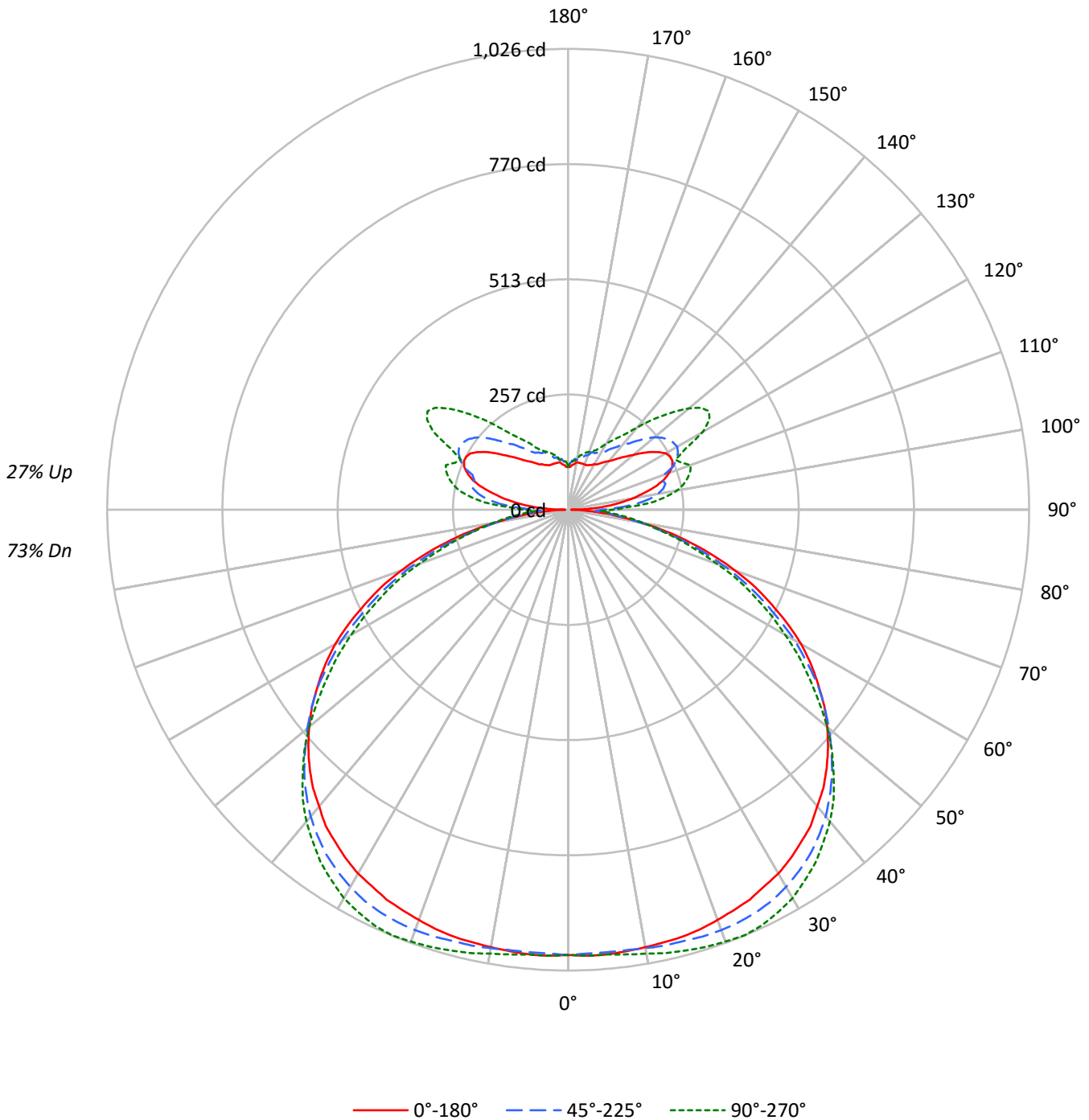
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3341	3341	3341
5°	3362	3345	3362
10°	3384	3392	3434
15°	3433	3467	3544
20°	3485	3573	3669
25°	3559	3677	3795
30°	3640	3772	3886
35°	3717	3858	3948
40°	3793	3922	3986
45°	3877	3959	3981
50°	3946	3971	3946
55°	3992	3978	3850
60°	4038	3924	3759
65°	3982	3806	3652
70°	3888	3672	3480
75°	3647	3425	3298
80°	3167	3072	3308
85°	2544	3391	3955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	2.0
10°-20°	282.8	5.9
20°-30°	456.4	9.5
30°-40°	585.0	12.2
40°-50°	638.7	13.3
50°-60°	600.3	12.5
60°-70°	473.6	9.8
70°-80°	280.6	5.8
80°-90°	103.0	2.1
90°-100°	151.4	3.1
100°-110°	238.7	5.0
110°-120°	262.0	5.4
120°-130°	256.0	5.3
130°-140°	175.0	3.6
140°-150°	105.1	2.2
150°-160°	62.9	1.3
160°-170°	34.3	0.7
170°-180°	10.4	0.2
0°-30°	834.1	17.3
0°-40°	1419.1	29.5
0°-60°	2658.2	55.2
0°-90°	3515.4	73.1
90°-120°	652.1	13.6
90°-150°	1188.2	24.7
90°-180°	1296.0	26.9
0°-180°	4811.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	994	994	989	994	994	95
15°	984	987	994	1011	1016	278
25°	957	967	989	1013	1021	442
35°	904	916	938	957	960	566
45°	814	821	831	838	836	627
55°	680	682	677	665	655	608
65°	499	494	477	468	458	494
75°	280	275	263	253	253	296
85°	66	71	88	100	102	75
90°	7	44	76	93	100	12
95°	83	117	154	180	188	80
105°	202	192	224	263	275	209
115°	256	246	266	263	263	250
125°	224	239	273	344	382	200
135°	163	183	217	266	295	127
145°	127	146	166	188	197	80
155°	110	124	139	144	146	51
165°	107	117	119	124	127	30
175°	100	110	107	110	110	10
180°	95	95	95	95	95	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	991.4	991.4	991.4	991.4	991.4
2.5°	993.9	993.9	989.0	993.9	993.9
5°	993.9	993.9	989.0	993.9	993.9
7.5°	991.4	991.4	989.0	998.7	998.7
10°	989.0	991.4	991.4	1003.6	1003.6
12.5°	986.6	989.0	993.9	1006.1	1010.9
15°	984.1	986.6	993.9	1010.9	1015.8
17.5°	979.3	984.1	996.3	1015.8	1020.7
20°	971.9	979.3	996.3	1018.2	1023.1
22.5°	964.6	974.4	993.9	1015.8	1025.5
25°	957.3	967.1	989.0	1013.4	1020.7
27.5°	945.2	957.3	981.7	1003.6	1010.9
30°	935.4	947.6	969.5	991.4	998.7
32.5°	920.8	933.0	954.9	974.4	979.3
35°	903.7	915.9	937.8	957.3	959.8
37.5°	886.7	898.9	915.9	930.5	933.0
40°	862.3	874.5	891.6	901.3	906.2
42.5°	840.4	852.6	862.3	872.1	874.5
45°	813.6	820.9	830.7	838.0	835.5
47.5°	784.4	791.7	794.1	801.4	796.6
50°	752.7	757.6	757.6	757.6	752.7
52.5°	718.6	718.6	718.6	711.3	704.0
55°	679.6	682.1	677.2	665.0	655.3
57.5°	640.7	640.7	628.5	616.3	609.0
60°	599.2	591.9	582.2	565.1	557.8
62.5°	550.5	543.2	528.6	516.4	509.1
65°	499.4	494.5	477.4	467.7	458.0
67.5°	450.7	443.3	426.3	411.7	409.2
70°	394.6	389.8	372.7	360.5	353.2
72.5°	338.6	331.3	316.7	306.9	299.6
75°	280.1	275.3	263.1	253.3	253.3
77.5°	224.1	219.2	207.1	207.1	207.1
80°	163.2	163.2	158.3	165.6	170.5
82.5°	112.1	112.1	119.4	131.5	134.0
85°	65.8	70.6	87.7	99.9	102.3
87.5°	29.2	41.4	60.9	70.6	73.1
90°	7.3	43.8	75.5	92.6	99.9
92.5°	43.8	82.8	114.5	126.7	131.5
95°	82.8	116.9	153.5	180.3	187.6
97.5°	114.5	138.8	182.7	211.9	219.2
100°	146.2	148.6	202.2	236.3	246.0
102.5°	173.0	170.5	216.8	250.9	263.1
105°	202.2	192.4	224.1	263.1	275.3
107.5°	224.1	209.5	219.2	272.8	285.0
110°	238.7	226.5	226.5	265.5	289.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	250.9	238.7	253.3	253.3	272.8
115°	255.8	246.0	265.5	263.1	263.1
117.5°	255.8	250.9	275.3	309.4	294.8
120°	250.9	253.3	280.1	338.6	345.9
122.5°	238.7	248.5	277.7	348.3	372.7
125°	224.1	238.7	272.8	343.5	382.4
127.5°	207.1	226.5	263.1	333.7	372.7
130°	190.0	211.9	250.9	314.2	350.8
132.5°	175.4	199.7	233.9	289.9	324.0
135°	163.2	182.7	216.8	265.5	294.8
137.5°	151.0	173.0	199.7	243.6	268.0
140°	141.3	165.6	190.0	219.2	238.7
142.5°	134.0	155.9	175.4	199.7	214.4
145°	126.7	146.2	165.6	187.6	197.3
147.5°	119.4	141.3	153.5	175.4	182.7
150°	116.9	134.0	146.2	163.2	170.5
152.5°	112.1	126.7	143.7	153.5	155.9
155°	109.6	124.2	138.8	143.7	146.2
157.5°	107.2	124.2	138.8	138.8	141.3
160°	107.2	116.9	129.1	138.8	136.4
162.5°	107.2	114.5	126.7	136.4	134.0
165°	107.2	116.9	119.4	124.2	126.7
167.5°	107.2	114.5	119.4	121.8	124.2
170°	107.2	109.6	112.1	119.4	114.5
172.5°	102.3	109.6	114.5	112.1	109.6
175°	99.9	109.6	107.2	109.6	109.6
177.5°	95.0	99.9	104.7	107.2	107.2
180°	95.0	95.0	95.0	95.0	95.0

(END OF REPORT)