

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: P213024

Luminaire Tested: **DSI-WS-50L840-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35729)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-50L840-1D-UNV-4-STD-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH DUST COVER, LIGHT LEVEL 4.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5023.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.49 / 1.57
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

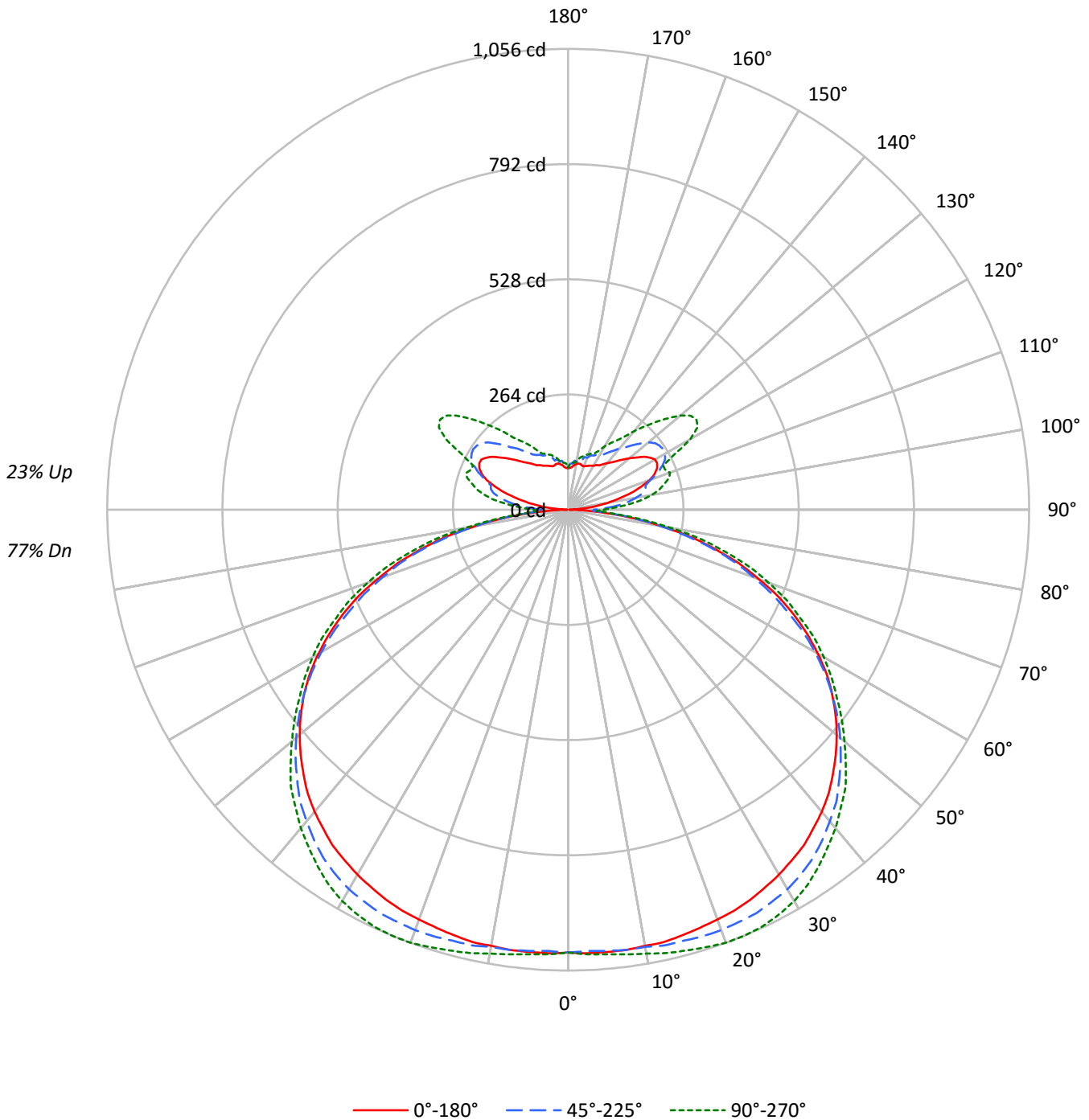
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	108	108	108	108	98	98	98		89	89	89		81	81	81	77
1	103	98	93	89	98	93	89	85	85	81	78		77	74	72		70	68	66	62
2	93	84	77	71	88	80	74	68	73	68	63		66	62	59		60	57	54	50
3	84	73	65	58	79	70	62	56	63	57	52		58	53	48		52	48	45	42
4	76	64	55	48	72	61	53	47	56	49	44		51	45	41		46	42	38	35
5	70	57	48	41	66	54	46	40	50	43	37		45	39	35		41	36	32	30
6	64	51	42	35	61	49	40	34	45	37	32		41	35	30		37	32	28	26
7	59	46	37	31	56	44	36	30	40	33	28		37	31	26		34	29	25	22
8	55	41	33	27	52	40	32	26	37	30	25		34	28	23		31	26	22	20
9	51	38	30	24	49	36	29	23	33	27	22		31	25	21		28	23	20	18
10	48	35	27	22	45	33	26	21	31	24	20		28	23	19		26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3419	3419	3419
5°	3441	3433	3459
10°	3472	3481	3534
15°	3522	3567	3648
20°	3583	3676	3787
25°	3667	3792	3917
30°	3757	3908	4029
35°	3866	4015	4111
40°	3975	4100	4191
45°	4085	4183	4282
50°	4209	4264	4332
55°	4338	4338	4414
60°	4455	4403	4559
65°	4549	4427	4673
70°	4579	4452	4808
75°	4538	4437	4840
80°	4158	4158	4611
85°	3294	3793	3994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.9
10°-20°	291.0	5.8
20°-30°	471.1	9.4
30°-40°	608.9	12.1
40°-50°	677.7	13.5
50°-60°	664.2	13.2
60°-70°	563.9	11.2
70°-80°	369.9	7.4
80°-90°	120.6	2.4
90°-100°	112.4	2.2
100°-110°	193.9	3.9
110°-120°	234.0	4.7
120°-130°	240.0	4.8
130°-140°	169.0	3.4
140°-150°	102.9	2.0
150°-160°	62.0	1.2
160°-170°	33.9	0.7
170°-180°	10.3	0.2
0°-30°	859.4	17.1
0°-40°	1468.3	29.2
0°-60°	2810.2	55.9
0°-90°	3864.6	76.9
90°-120°	540.3	10.8
90°-150°	1052.2	20.9
90°-180°	1158.0	23.1
0°-180°	5023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1017	1017	1015	1022	1022	97
15°	1010	1015	1022	1041	1046	286
25°	986	997	1020	1046	1054	455
35°	940	953	976	994	999	588
45°	857	868	878	891	899	662
55°	738	738	738	749	751	659
65°	571	566	555	584	586	563
75°	349	341	341	372	372	365
85°	85	88	98	106	103	98
90°	3	36	59	75	80	7
95°	39	83	116	134	137	43
105°	150	150	183	220	227	156
115°	225	217	238	243	240	219
125°	212	222	256	325	359	188
135°	158	178	209	258	284	124
145°	124	142	160	183	194	80
155°	111	124	137	142	142	52
165°	108	114	116	124	126	30
175°	98	108	106	108	108	10
180°	96	96	96	96	96	



TEST NUMBER: P213024

CATALOG NUMBER: DSI-WS-50L840-1D-UNV-4-STD-DC-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1014.8	1014.8	1014.8	1014.8	1014.8
2.5°	1017.4	1017.4	1012.2	1017.4	1019.9
5°	1017.4	1017.4	1014.8	1022.5	1022.5
7.5°	1017.4	1017.4	1017.4	1025.1	1027.7
10°	1014.8	1017.4	1017.4	1030.3	1032.8
12.5°	1014.8	1017.4	1022.5	1035.4	1040.6
15°	1009.6	1014.8	1022.5	1040.6	1045.8
17.5°	1004.4	1012.2	1025.1	1045.8	1050.9
20°	999.3	1009.6	1025.1	1048.3	1056.1
22.5°	994.1	1004.4	1022.5	1048.3	1056.1
25°	986.4	996.7	1019.9	1045.8	1053.5
27.5°	976.0	989.0	1012.2	1038.0	1045.8
30°	965.7	981.2	1004.4	1027.7	1035.4
32.5°	952.8	968.3	991.5	1014.8	1019.9
35°	939.9	952.8	976.0	994.1	999.3
37.5°	921.8	932.1	955.4	973.5	976.0
40°	903.7	914.1	932.1	950.2	952.8
42.5°	883.1	890.8	908.9	921.8	924.4
45°	857.3	867.6	877.9	890.8	898.6
47.5°	831.4	839.2	846.9	859.8	862.4
50°	803.0	808.2	813.4	826.3	826.3
52.5°	772.1	777.2	777.2	787.5	790.1
55°	738.5	738.5	738.5	748.8	751.4
57.5°	702.3	702.3	697.2	710.1	715.2
60°	661.0	661.0	653.3	668.8	676.5
62.5°	617.1	614.5	606.8	624.9	635.2
65°	570.6	565.5	555.2	583.6	586.1
67.5°	521.6	516.4	506.1	534.5	542.2
70°	464.8	464.8	451.9	485.4	488.0
72.5°	410.6	402.8	400.2	428.6	436.4
75°	348.6	340.8	340.8	371.8	371.8
77.5°	286.6	276.3	276.3	304.7	312.4
80°	214.3	211.7	214.3	235.0	237.6
82.5°	152.3	144.6	152.3	165.3	167.8
85°	85.2	87.8	98.1	105.9	103.3
87.5°	33.6	46.5	56.8	62.0	64.6
90°	2.6	36.1	59.4	74.9	80.0
92.5°	15.5	59.4	85.2	100.7	105.9
95°	38.7	82.6	116.2	134.3	136.9
97.5°	64.6	98.1	139.4	162.7	170.4
100°	93.0	113.6	157.5	185.9	193.7
102.5°	121.4	131.7	175.6	204.0	214.3
105°	149.8	149.8	183.3	219.5	227.2
107.5°	175.6	170.4	185.9	229.8	242.7
110°	198.8	188.5	201.4	227.2	247.9



TEST NUMBER: P213024

CATALOG NUMBER: DSI-WS-50L840-1D-UNV-4-STD-DC-W

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.3	204.0	222.1	227.2	240.1
115°	224.6	216.9	237.6	242.7	240.1
117.5°	229.8	224.6	250.5	284.0	273.7
120°	229.8	229.8	255.6	312.4	322.8
122.5°	222.1	229.8	258.2	325.3	351.2
125°	211.7	222.1	255.6	325.3	358.9
127.5°	196.2	211.7	250.5	315.0	353.8
130°	183.3	201.4	240.1	299.5	335.7
132.5°	170.4	191.1	224.6	278.9	309.9
135°	157.5	178.2	209.2	258.2	284.0
137.5°	147.2	167.8	193.7	237.6	258.2
140°	139.4	162.7	183.3	214.3	235.0
142.5°	131.7	152.3	170.4	196.2	209.2
145°	123.9	142.0	160.1	183.3	193.7
147.5°	121.4	139.4	149.8	170.4	180.7
150°	116.2	131.7	144.6	160.1	167.8
152.5°	113.6	126.5	142.0	149.8	152.3
155°	111.0	123.9	136.9	142.0	142.0
157.5°	108.4	123.9	134.3	134.3	139.4
160°	105.9	116.2	126.5	136.9	134.3
162.5°	105.9	113.6	126.5	131.7	131.7
165°	108.4	113.6	116.2	123.9	126.5
167.5°	108.4	113.6	118.8	118.8	121.4
170°	105.9	108.4	111.0	118.8	113.6
172.5°	103.3	108.4	113.6	111.0	108.4
175°	98.1	108.4	105.9	108.4	108.4
177.5°	95.5	98.1	105.9	108.4	105.9
180°	95.5	95.5	95.5	95.5	95.5

(END OF REPORT)