

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: P213094

Luminaire Tested: **DSI-WD-50L840-1D-UNV-4-STD-FC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35734)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WD-50L840-1D-UNV-4-STD-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH FROSTED COVER, LIGHT LEVEL 4.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5166.1 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.43 / 1.52
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

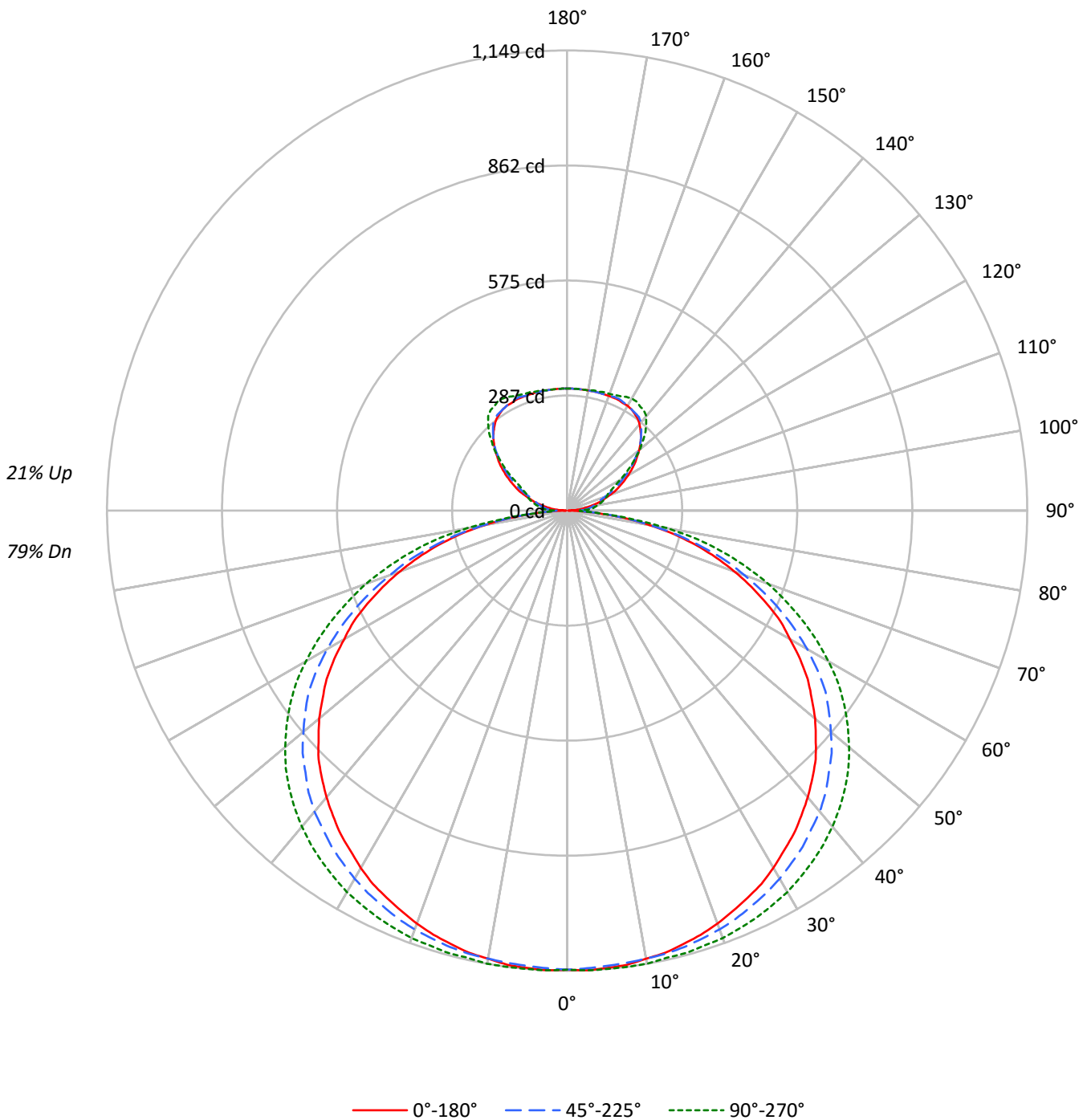
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	109	99	99	99		91	91	91		82	82	82	79
1	103	98	94	90	98	94	90	86	86	83	80		78	76	73		71	69	68	64
2	93	85	78	72	89	81	75	69	74	69	64		68	63	60		62	58	55	52
3	84	74	65	59	80	71	63	57	64	58	53		59	54	50		54	50	46	43
4	77	65	56	49	73	62	54	48	57	50	45		52	46	42		47	43	39	36
5	70	57	48	42	67	55	47	40	51	44	38		46	40	36		42	37	34	31
6	65	51	42	36	61	49	41	35	45	38	33		42	36	31		38	33	29	27
7	60	46	38	31	57	44	36	31	41	34	29		38	32	27		35	30	26	23
8	56	42	34	28	53	40	32	27	37	30	26		34	28	24		32	27	23	21
9	52	38	30	25	49	37	29	24	34	27	23		32	26	22		29	24	20	18
10	48	35	27	22	46	34	27	22	31	25	21		29	23	19		27	22	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3863	3863	3863
5°	3878	3860	3886
10°	3887	3887	3931
15°	3909	3936	3990
20°	3935	3991	4074
25°	3965	4051	4166
30°	4009	4129	4280
35°	4058	4217	4397
40°	4111	4316	4532
45°	4183	4405	4676
50°	4237	4507	4819
55°	4308	4626	4960
60°	4333	4663	5081
65°	4385	4673	5167
70°	4375	4629	5266
75°	4337	4538	5278
80°	4059	4108	4909
85°	2996	3193	3294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	2.1
10°-20°	319.9	6.2
20°-30°	504.5	9.8
30°-40°	642.8	12.4
40°-50°	715.8	13.9
50°-60°	702.0	13.6
60°-70°	586.5	11.4
70°-80°	377.8	7.3
80°-90°	106.2	2.1
90°-100°	51.4	1.0
100°-110°	90.2	1.7
110°-120°	132.0	2.6
120°-130°	177.5	3.4
130°-140°	203.0	3.9
140°-150°	189.0	3.7
150°-160°	142.5	2.8
160°-170°	86.7	1.7
170°-180°	29.1	0.6
0°-30°	933.6	18.1
0°-40°	1576.4	30.5
0°-60°	2994.2	58.0
0°-90°	4064.7	78.7
90°-120°	273.6	5.3
90°-150°	843.1	16.3
90°-180°	1101.0	21.3
0°-180°	5166.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1146	1146	1146	1146	1146	
5°	1146	1146	1141	1149	1149	109
15°	1121	1126	1128	1139	1144	317
25°	1066	1074	1090	1113	1121	492
35°	986	997	1025	1056	1069	617
45°	878	891	924	966	981	676
55°	733	749	788	824	844	653
65°	550	563	586	630	648	543
75°	333	338	349	387	405	349
85°	78	80	83	88	85	93
90°	3	18	26	31	31	6
95°	26	39	52	59	65	27
105°	85	80	80	90	93	89
115°	145	142	132	124	121	144
125°	207	201	199	194	194	184
135°	261	256	261	271	276	200
145°	294	292	297	312	318	184
155°	305	305	307	312	315	141
165°	305	305	305	307	307	86
175°	305	305	305	305	305	29
180°	305	305	305	305	305	



TEST NUMBER: P213094

CATALOG NUMBER: DSI-WD-50L840-1D-UNV-4-STD-FC-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1146.5	1146.5	1146.5	1146.5	1146.5
2.5°	1149.0	1149.0	1143.9	1149.0	1149.0
5°	1146.5	1146.5	1141.3	1149.0	1149.0
7.5°	1143.9	1143.9	1138.7	1149.0	1149.0
10°	1136.1	1138.7	1136.1	1146.5	1149.0
12.5°	1131.0	1133.5	1133.5	1143.9	1143.9
15°	1120.6	1125.8	1128.4	1138.7	1143.9
17.5°	1110.3	1115.5	1120.6	1133.5	1138.7
20°	1097.4	1102.6	1112.9	1128.4	1136.1
22.5°	1081.9	1089.7	1102.6	1120.6	1128.4
25°	1066.4	1074.2	1089.7	1112.9	1120.6
27.5°	1050.9	1058.7	1076.7	1100.0	1110.3
30°	1030.3	1040.6	1061.2	1087.1	1100.0
32.5°	1007.0	1019.9	1043.2	1071.6	1084.5
35°	986.4	996.7	1025.1	1056.1	1069.0
37.5°	960.5	973.5	1001.9	1038.0	1050.9
40°	934.7	950.2	981.2	1014.8	1030.3
42.5°	906.3	919.2	955.4	991.5	1007.0
45°	877.9	890.8	924.4	965.7	981.2
47.5°	841.8	859.8	896.0	937.3	952.8
50°	808.2	823.7	859.8	903.7	919.2
52.5°	769.5	790.1	823.7	865.0	883.1
55°	733.3	748.8	787.5	823.7	844.3
57.5°	689.4	707.5	741.1	779.8	803.0
60°	642.9	661.0	692.0	730.7	754.0
62.5°	601.6	612.0	640.4	681.7	702.3
65°	550.0	562.9	586.1	630.0	648.1
67.5°	498.3	508.7	529.3	573.2	591.3
70°	444.1	454.5	469.9	513.8	534.5
72.5°	389.9	397.6	415.7	451.9	469.9
75°	333.1	338.3	348.6	387.3	405.4
77.5°	273.7	273.7	284.0	317.6	335.7
80°	209.2	209.2	211.7	242.7	253.0
82.5°	144.6	139.4	144.6	162.7	165.3
85°	77.5	80.0	82.6	87.8	85.2
87.5°	28.4	33.6	36.1	33.6	33.6
90°	2.6	18.1	25.8	31.0	31.0
92.5°	12.9	31.0	43.9	46.5	49.1
95°	25.8	38.7	51.6	59.4	64.6
97.5°	41.3	43.9	59.4	69.7	69.7
100°	54.2	54.2	67.1	77.5	77.5
102.5°	69.7	67.1	74.9	82.6	85.2
105°	85.2	80.0	80.0	90.4	93.0
107.5°	98.1	95.5	87.8	98.1	100.7
110°	113.6	111.0	100.7	103.3	105.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	131.7	126.5	116.2	111.0	111.0
115°	144.6	142.0	131.7	123.9	121.4
117.5°	160.1	154.9	147.2	139.4	134.3
120°	175.6	170.4	162.7	157.5	152.3
122.5°	191.1	188.5	180.7	175.6	173.0
125°	206.6	201.4	198.8	193.7	193.7
127.5°	219.5	216.9	214.3	214.3	214.3
130°	235.0	229.8	232.4	232.4	237.6
132.5°	247.9	242.7	247.9	253.0	255.6
135°	260.8	255.6	260.8	271.1	276.3
137.5°	271.1	268.5	273.7	286.6	291.8
140°	281.4	278.9	286.6	299.5	307.3
142.5°	289.2	286.6	294.4	307.3	315.0
145°	294.4	291.8	296.9	312.4	317.6
147.5°	299.5	296.9	299.5	317.6	322.8
150°	302.1	302.1	302.1	317.6	322.8
152.5°	302.1	302.1	304.7	312.4	320.2
155°	304.7	304.7	307.3	312.4	315.0
157.5°	304.7	304.7	307.3	309.9	312.4
160°	304.7	304.7	304.7	309.9	309.9
162.5°	304.7	304.7	304.7	307.3	309.9
165°	304.7	304.7	304.7	307.3	307.3
167.5°	304.7	304.7	304.7	307.3	307.3
170°	304.7	304.7	304.7	304.7	304.7
172.5°	304.7	304.7	304.7	304.7	304.7
175°	304.7	304.7	304.7	304.7	304.7
177.5°	304.7	304.7	304.7	304.7	304.7
180°	304.7	304.7	304.7	304.7	304.7

(END OF REPORT)