

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: P213102

Luminaire Tested: **DSI-WD-40L835-1D-UNV-4-STD-SC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35735)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WD-40L835-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH SOLID COVER, LIGHT LEVEL 3.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3999.0 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.38 / 1.47
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

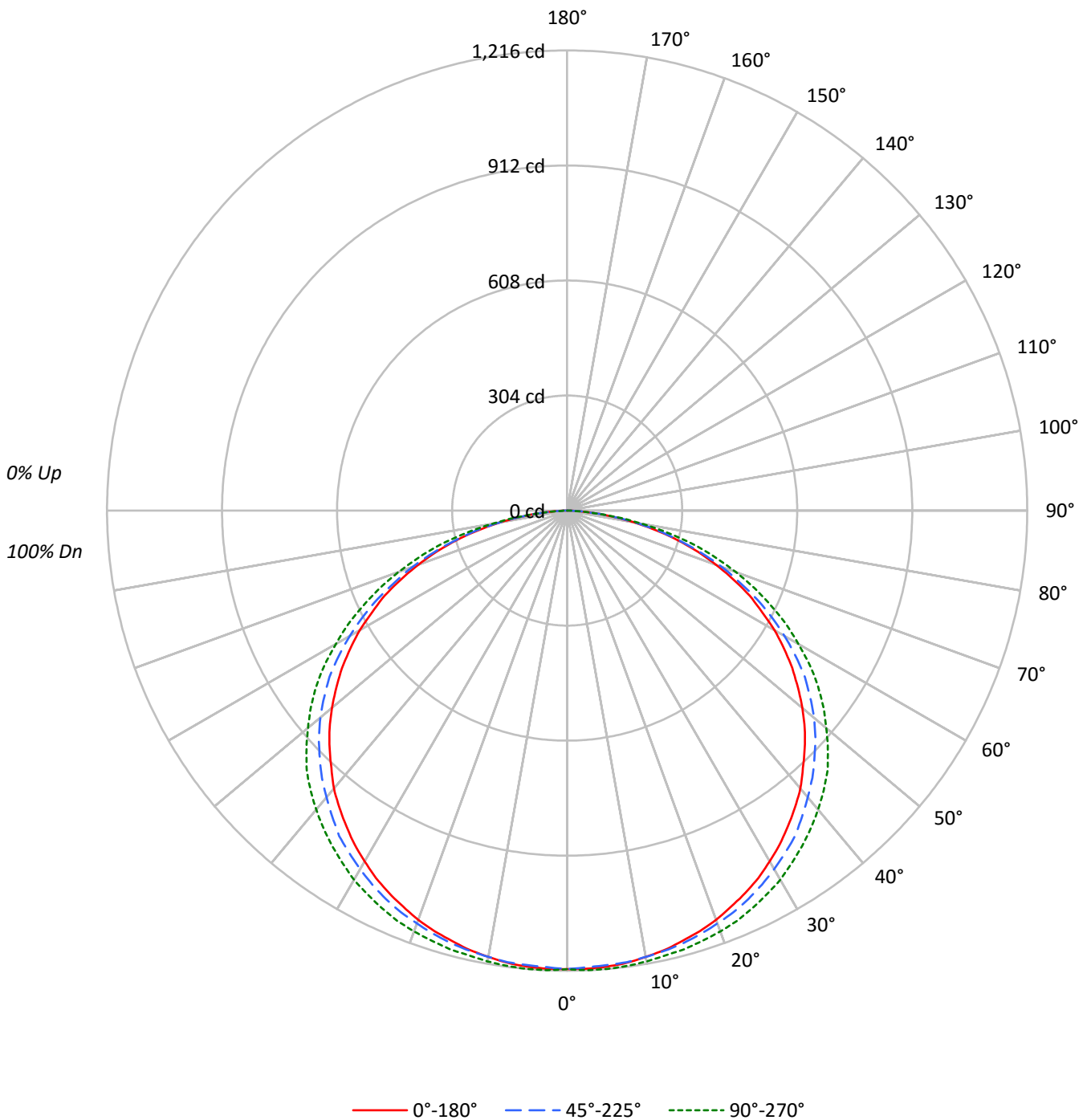
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	68	59	52	79	67	58	52	65	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4083	4083	4083
5°	4092	4078	4112
10°	4098	4098	4139
15°	4107	4128	4185
20°	4127	4164	4243
25°	4144	4212	4309
30°	4164	4258	4384
35°	4185	4319	4452
40°	4218	4351	4538
45°	4232	4406	4637
50°	4252	4464	4687
55°	4266	4504	4754
60°	4267	4471	4758
65°	4242	4403	4742
70°	4125	4285	4664
75°	3950	4003	4503
80°	3454	3534	3926
85°	2583	2583	2424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	2.9
10°-20°	335.6	8.4
20°-30°	523.9	13.1
30°-40°	657.0	16.4
40°-50°	716.1	17.9
50°-60°	684.2	17.1
60°-70°	551.3	13.8
70°-80°	334.0	8.4
80°-90°	81.6	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	974.7	24.4
0°-40°	1631.8	40.8
0°-60°	3032.1	75.8
0°-90°	3999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1210	1212	1206	1214	1216	115
15°	1177	1181	1183	1196	1200	333
25°	1115	1119	1133	1151	1159	514
35°	1018	1028	1050	1072	1082	637
45°	888	902	924	957	973	685
55°	726	742	767	795	809	648
65°	532	540	552	578	595	523
75°	303	308	308	332	346	318
85°	67	65	67	65	63	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211.7	1211.7	1211.7	1211.7	1211.7
2.5°	1211.7	1211.7	1207.7	1213.7	1215.8
5°	1209.7	1211.7	1205.6	1213.7	1215.8
7.5°	1205.6	1205.6	1203.6	1209.7	1213.7
10°	1197.6	1199.6	1197.6	1205.6	1209.7
12.5°	1189.5	1191.5	1191.5	1201.6	1203.6
15°	1177.3	1181.4	1183.4	1195.5	1199.6
17.5°	1165.2	1169.2	1173.3	1187.4	1191.5
20°	1151.0	1157.1	1161.1	1177.3	1183.4
22.5°	1132.8	1138.9	1149.0	1165.2	1173.3
25°	1114.6	1118.7	1132.8	1151.0	1159.1
27.5°	1094.4	1100.5	1114.6	1134.8	1142.9
30°	1070.1	1080.2	1094.4	1116.6	1126.8
32.5°	1045.8	1055.9	1072.1	1094.4	1104.5
35°	1017.5	1027.6	1049.9	1072.1	1082.2
37.5°	989.2	999.3	1019.5	1045.8	1058.0
40°	958.9	969.0	989.2	1019.5	1031.7
42.5°	922.4	936.6	958.9	989.2	1003.4
45°	888.0	902.2	924.5	956.8	973.0
47.5°	851.6	865.8	890.1	922.4	934.6
50°	811.2	825.3	851.6	882.0	894.1
52.5°	768.7	786.9	809.2	839.5	853.7
55°	726.2	742.4	766.7	795.0	809.2
57.5°	679.7	691.8	716.1	744.4	760.6
60°	633.2	643.3	663.5	691.8	706.0
62.5°	580.6	592.7	608.9	637.2	653.4
65°	532.0	540.1	552.2	578.5	594.7
67.5°	475.4	481.4	491.6	521.9	536.1
70°	418.7	426.8	434.9	461.2	473.4
72.5°	362.1	368.2	372.2	394.5	410.6
75°	303.4	307.5	307.5	331.8	345.9
77.5°	240.7	242.7	248.8	265.0	273.1
80°	178.0	184.1	182.1	194.2	202.3
82.5°	119.4	119.4	119.4	125.4	129.5
85°	66.8	64.7	66.8	64.7	62.7
87.5°	22.3	26.3	18.2	14.2	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)