

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: P213071

Luminaire Tested: **DSI-WD-60L830-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35733)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WD-60L830-1D-UNV-4-STD-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH DUST COVER, LIGHT LEVEL 5.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5771.6 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.47 / 1.55
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

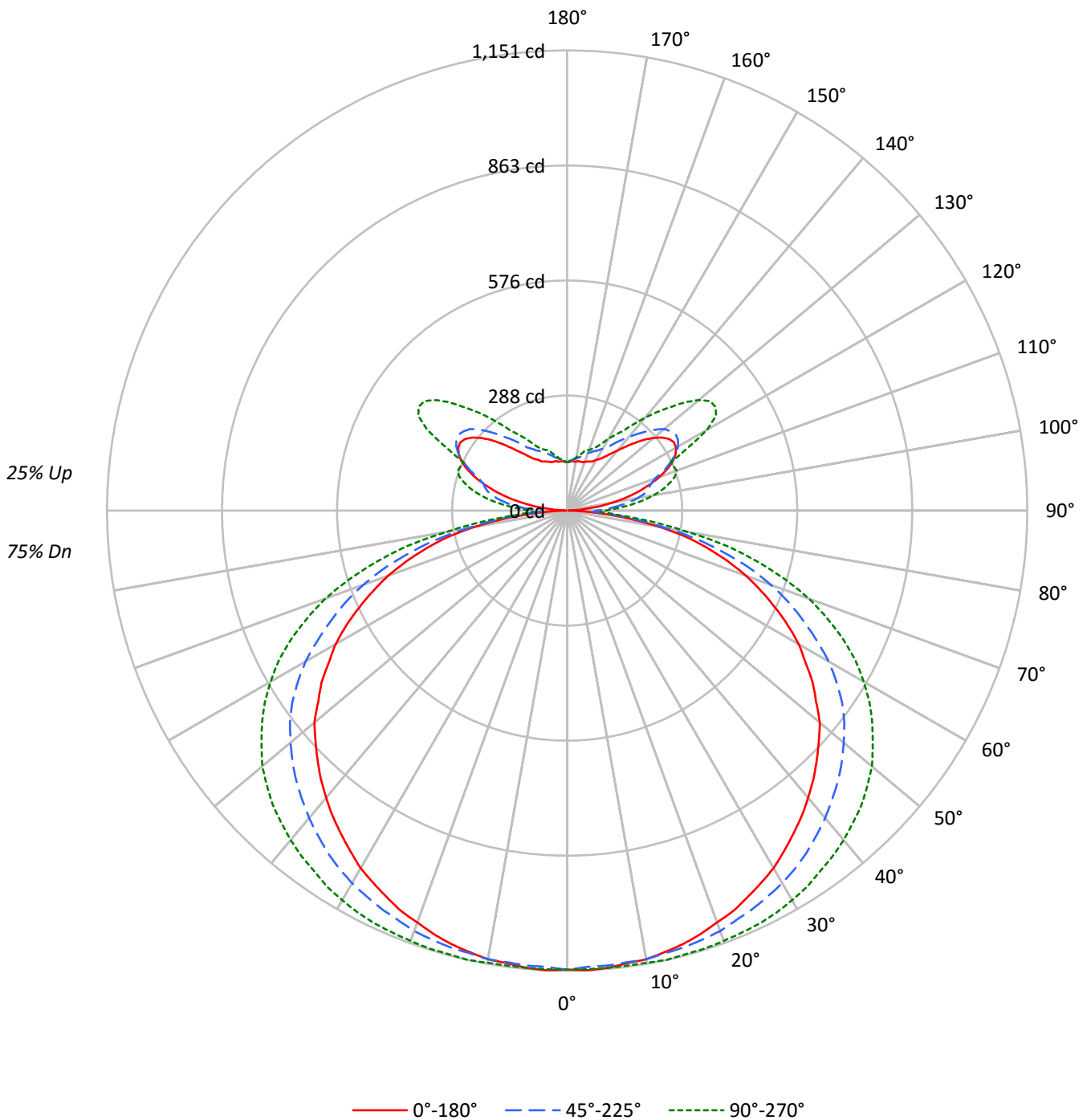
Input Watts (W): 46.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	102	97	92	88	97	92	88	84	83	80	77	75	73	70	68	66	64	60
2	92	83	76	70	87	79	73	67	72	67	62	65	61	57	58	55	52	49
3	83	72	64	57	79	69	61	55	62	56	51	56	51	47	51	47	43	40
4	76	63	55	48	71	60	52	46	55	48	43	50	44	39	45	40	36	33
5	69	56	47	40	65	54	45	39	49	42	36	44	38	34	40	35	31	28
6	64	50	41	35	60	48	40	34	44	37	31	40	34	29	36	31	27	24
7	59	45	36	30	56	43	35	29	39	32	27	36	30	26	32	27	24	21
8	54	41	32	27	52	39	31	26	36	29	24	33	27	23	30	25	21	19
9	51	37	29	24	48	36	28	23	33	26	22	30	24	20	27	22	19	17
10	47	34	26	21	45	33	26	21	30	24	19	28	22	18	25	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3869	3869	3869
5°	3884	3864	3884
10°	3899	3899	3929
15°	3915	3945	4005
20°	3931	4014	4107
25°	3969	4086	4237
30°	4018	4187	4378
35°	4058	4296	4533
40°	4124	4416	4733
45°	4207	4564	4963
50°	4325	4733	5217
55°	4406	4932	5474
60°	4511	5093	5774
65°	4577	5198	6072
70°	4690	5343	6338
75°	4732	5296	6422
80°	4535	4871	5934
85°	3344	4349	5018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	1.9
10°-20°	320.9	5.6
20°-30°	509.1	8.8
30°-40°	654.9	11.3
40°-50°	742.1	12.9
50°-60°	750.4	13.0
60°-70°	655.7	11.4
70°-80°	441.4	7.6
80°-90°	141.0	2.4
90°-100°	127.5	2.2
100°-110°	227.3	3.9
110°-120°	289.5	5.0
120°-130°	315.8	5.5
130°-140°	227.5	3.9
140°-150°	132.0	2.3
150°-160°	75.0	1.3
160°-170°	40.0	0.7
170°-180°	12.2	0.2
0°-30°	939.3	16.3
0°-40°	1594.1	27.6
0°-60°	3086.7	53.5
0°-90°	4324.7	74.9
90°-120°	644.3	11.2
90°-150°	1319.6	22.9
90°-180°	1447.0	25.1
0°-180°	5771.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1148	1148	1142	1148	1148	109
15°	1122	1125	1131	1145	1148	317
25°	1067	1079	1099	1128	1140	493
35°	987	1004	1044	1085	1102	618
45°	883	909	958	1018	1041	682
55°	750	782	840	900	932	669
65°	574	612	652	727	762	568
75°	364	387	407	467	493	381
85°	86	92	112	127	130	102
90°	3	43	72	92	95	7
95°	43	89	127	150	156	51
105°	185	182	211	251	265	194
115°	291	280	286	291	286	284
125°	312	312	332	410	453	276
135°	239	254	280	335	366	186
145°	164	185	205	231	242	105
155°	136	147	164	170	176	63
165°	127	133	141	147	150	36
175°	124	124	127	127	127	12
180°	121	121	121	121	121	



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CATALOG NUMBER: DSI-WD-60L830-1D-UNV-4-STD-DC-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.2	1148.2	1148.2	1148.2	1148.2
2.5°	1151.0	1148.2	1142.4	1148.2	1148.2
5°	1148.2	1148.2	1142.4	1148.2	1148.2
7.5°	1142.4	1145.3	1139.5	1148.2	1148.2
10°	1139.5	1139.5	1139.5	1148.2	1148.2
12.5°	1130.8	1133.7	1133.7	1145.3	1151.0
15°	1122.2	1125.1	1130.8	1145.3	1148.2
17.5°	1110.7	1116.4	1125.1	1142.4	1148.2
20°	1096.2	1104.9	1119.3	1139.5	1145.3
22.5°	1084.7	1093.3	1107.8	1133.7	1142.4
25°	1067.4	1078.9	1099.1	1128.0	1139.5
27.5°	1050.1	1061.6	1087.6	1119.3	1133.7
30°	1032.8	1047.2	1076.0	1110.7	1125.1
32.5°	1009.7	1027.0	1061.6	1099.1	1116.4
35°	986.6	1003.9	1044.3	1084.7	1102.0
37.5°	963.5	983.7	1024.1	1070.3	1090.5
40°	937.6	957.8	1003.9	1055.8	1076.0
42.5°	911.6	934.7	980.8	1035.6	1058.7
45°	882.8	908.7	957.8	1018.3	1041.4
47.5°	853.9	879.9	931.8	995.3	1018.3
50°	825.1	851.0	902.9	966.4	995.3
52.5°	784.7	816.4	874.1	934.7	963.5
55°	750.0	781.8	839.5	900.1	931.8
57.5°	706.8	744.3	799.1	862.6	897.2
60°	669.3	701.0	755.8	822.2	856.8
62.5°	623.1	657.7	703.9	776.0	813.5
65°	574.1	611.6	652.0	727.0	761.6
67.5°	525.0	559.7	600.0	669.3	703.9
70°	476.0	507.7	542.3	611.6	643.3
72.5°	421.2	450.0	478.9	542.3	571.2
75°	363.5	386.6	406.8	467.3	493.3
77.5°	305.8	317.3	334.6	386.6	409.6
80°	233.7	242.3	251.0	294.3	305.8
82.5°	158.7	164.4	176.0	201.9	213.5
85°	86.5	92.3	112.5	126.9	129.8
87.5°	28.8	46.2	66.4	77.9	83.7
90°	2.9	43.3	72.1	92.3	95.2
92.5°	14.4	66.4	98.1	115.4	121.2
95°	43.3	89.4	126.9	150.0	155.8
97.5°	80.8	112.5	155.8	181.7	190.4
100°	115.4	132.7	178.9	210.6	219.2
102.5°	152.9	152.9	199.1	233.7	245.2
105°	184.6	181.7	210.6	251.0	265.4
107.5°	216.4	207.7	219.2	265.4	282.7
110°	245.2	233.7	233.7	268.3	291.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.2	256.7	262.5	268.3	288.5
115°	291.4	279.8	285.6	291.4	285.6
117.5°	305.8	297.1	305.8	349.1	340.4
120°	314.4	308.7	320.2	386.6	403.9
122.5°	317.3	314.4	328.9	403.9	441.4
125°	311.6	311.6	331.8	409.6	452.9
127.5°	300.0	305.8	326.0	401.0	450.0
130°	282.7	291.4	317.3	383.7	429.8
132.5°	262.5	274.1	300.0	360.6	401.0
135°	239.4	253.9	279.8	334.6	366.4
137.5°	216.4	233.7	259.6	305.8	334.6
140°	196.2	216.4	239.4	279.8	302.9
142.5°	178.9	199.1	222.1	253.9	271.2
145°	164.4	184.6	204.8	230.8	242.3
147.5°	152.9	173.1	187.5	216.4	225.0
150°	147.1	161.5	178.9	199.1	207.7
152.5°	138.5	152.9	170.2	181.7	190.4
155°	135.6	147.1	164.4	170.2	176.0
157.5°	132.7	141.4	158.7	164.4	167.3
160°	129.8	138.5	152.9	161.5	161.5
162.5°	126.9	135.6	147.1	155.8	158.7
165°	126.9	132.7	141.4	147.1	150.0
167.5°	126.9	129.8	135.6	141.4	141.4
170°	124.0	126.9	132.7	135.6	135.6
172.5°	124.0	126.9	129.8	132.7	129.8
175°	124.0	124.0	126.9	126.9	126.9
177.5°	124.0	124.0	124.0	124.0	121.2
180°	121.2	121.2	121.2	121.2	121.2

(END OF REPORT)