

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: P213057

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35732)
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-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC, LIGHT LEVEL 5.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5847.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.45 / 1.52
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

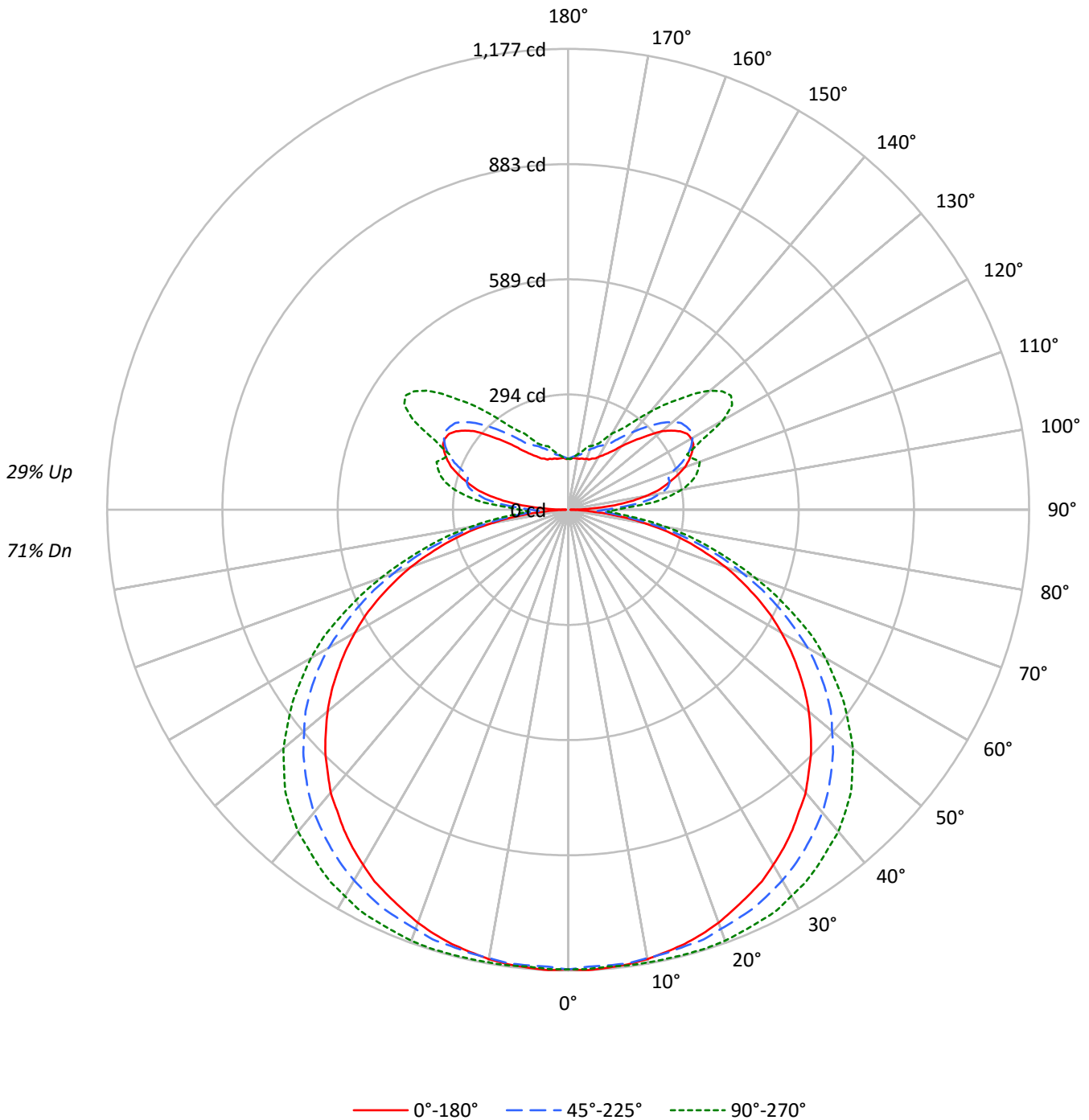
Input Watts (W): 46.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	101	97	92	88	96	91	88	84	82	79	76	73	71	69	65	63	62	58
2	92	83	77	71	86	79	73	68	71	66	62	63	59	56	56	53	51	47
3	83	73	65	58	78	69	62	56	62	56	51	55	51	47	49	45	42	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	43	39	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28
6	64	51	42	36	60	48	40	34	44	37	32	39	33	29	35	30	27	24
7	59	46	37	31	55	43	36	30	39	33	28	35	30	26	32	27	24	21
8	55	41	33	27	52	39	32	26	36	29	25	32	27	23	29	24	21	19
9	51	38	30	24	48	36	29	23	33	26	22	30	24	20	27	22	19	17
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3956	3956	3956
5°	3971	3952	3962
10°	3988	3978	4017
15°	4005	4025	4096
20°	4024	4086	4200
25°	4044	4172	4312
30°	4074	4254	4434
35°	4106	4343	4569
40°	4149	4441	4720
45°	4179	4523	4866
50°	4204	4613	4975
55°	4220	4711	5050
60°	4238	4763	5113
65°	4232	4738	5083
70°	4207	4661	5002
75°	4093	4581	4920
80°	3863	4310	4927
85°	2787	4349	5130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	1.9
10°-20°	327.9	5.6
20°-30°	518.7	8.9
30°-40°	661.3	11.3
40°-50°	732.7	12.5
50°-60°	710.3	12.1
60°-70°	583.4	10.0
70°-80°	368.8	6.3
80°-90°	134.8	2.3
90°-100°	179.1	3.1
100°-110°	295.1	5.0
110°-120°	342.1	5.9
120°-130°	354.5	6.1
130°-140°	248.4	4.2
140°-150°	141.7	2.4
150°-160°	80.7	1.4
160°-170°	42.7	0.7
170°-180°	13.0	0.2
0°-30°	958.4	16.4
0°-40°	1619.7	27.7
0°-60°	3062.7	52.4
0°-90°	4149.7	71.0
90°-120°	816.3	14.0
90°-150°	1560.9	26.7
90°-180°	1697.0	29.0
0°-180°	5847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1174	1174	1168	1171	1171	112
15°	1148	1151	1154	1171	1174	324
25°	1088	1099	1122	1151	1160	502
35°	998	1018	1056	1096	1111	625
45°	877	903	949	1001	1021	676
55°	718	750	802	842	860	642
65°	531	560	594	626	638	525
75°	314	335	352	364	378	331
85°	72	86	112	130	133	87
90°	6	55	95	115	124	12
95°	110	130	176	208	219	107
105°	265	239	268	317	338	279
115°	349	335	338	332	335	343
125°	349	355	369	456	508	310
135°	257	280	306	364	398	201
145°	176	199	219	248	260	113
155°	144	159	179	185	188	67
165°	136	141	150	159	159	38
175°	133	133	136	136	133	13
180°	130	130	130	130	130	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.1	1174.1	1174.1	1174.1	1174.1
2.5°	1177.0	1177.0	1168.3	1174.1	1174.1
5°	1174.1	1174.1	1168.3	1171.2	1171.2
7.5°	1171.2	1171.2	1168.3	1174.1	1174.1
10°	1165.5	1165.5	1162.6	1171.2	1174.1
12.5°	1156.8	1156.8	1159.7	1171.2	1174.1
15°	1148.2	1151.0	1153.9	1171.2	1174.1
17.5°	1136.6	1139.5	1151.0	1168.3	1174.1
20°	1122.2	1128.0	1139.5	1162.6	1171.2
22.5°	1104.9	1113.5	1130.8	1156.8	1165.5
25°	1087.6	1099.1	1122.2	1151.0	1159.7
27.5°	1070.3	1081.8	1107.8	1142.4	1153.9
30°	1047.2	1061.6	1093.3	1128.0	1139.5
32.5°	1024.1	1041.4	1076.0	1113.5	1128.0
35°	998.1	1018.3	1055.8	1096.2	1110.7
37.5°	969.3	992.4	1032.8	1076.0	1090.5
40°	943.3	963.5	1009.7	1055.8	1073.1
42.5°	908.7	934.7	980.8	1027.0	1047.2
45°	877.0	902.9	949.1	1001.0	1021.2
47.5°	839.5	868.3	917.4	969.3	983.7
50°	802.0	830.8	879.9	928.9	949.1
52.5°	761.6	790.4	845.2	888.5	902.9
55°	718.3	750.1	802.0	842.4	859.7
57.5°	675.0	706.8	755.8	793.3	807.7
60°	628.9	657.7	706.8	741.4	758.7
62.5°	582.7	608.7	649.1	686.6	703.9
65°	530.8	559.7	594.3	626.0	637.5
67.5°	478.9	504.8	536.6	562.5	574.1
70°	427.0	450.0	473.1	499.1	507.7
72.5°	369.3	392.3	415.4	429.8	441.4
75°	314.4	334.6	351.9	363.5	377.9
77.5°	259.6	274.1	285.6	308.7	317.3
80°	199.1	210.6	222.1	245.2	253.9
82.5°	135.6	144.2	161.5	181.7	190.4
85°	72.1	86.5	112.5	129.8	132.7
87.5°	28.8	49.0	75.0	92.3	101.0
90°	5.8	54.8	95.2	115.4	124.0
92.5°	49.0	92.3	129.8	150.0	155.8
95°	109.6	129.8	176.0	207.7	219.2
97.5°	158.7	164.4	213.5	248.1	259.6
100°	201.9	184.6	239.4	282.7	294.3
102.5°	239.4	213.5	259.6	302.9	320.2
105°	265.4	239.4	268.3	317.3	337.5
107.5°	291.4	268.3	268.3	328.9	349.1
110°	317.3	294.3	282.7	328.9	357.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	334.6	317.3	314.4	320.2	343.3
115°	349.1	334.6	337.5	331.8	334.6
117.5°	360.6	349.1	354.8	401.0	383.7
120°	363.5	357.7	366.4	441.4	455.8
122.5°	360.6	360.6	372.1	455.8	496.2
125°	349.1	354.8	369.3	455.8	507.7
127.5°	331.8	340.4	363.5	444.3	496.2
130°	311.6	323.1	349.1	421.2	473.1
132.5°	282.7	302.9	328.9	395.2	438.5
135°	256.7	279.8	305.8	363.5	398.1
137.5°	233.7	256.7	282.7	331.8	363.5
140°	210.6	233.7	259.6	300.0	326.0
142.5°	190.4	216.4	239.4	271.2	291.4
145°	176.0	199.1	219.2	248.1	259.6
147.5°	164.4	184.6	201.9	230.8	239.4
150°	155.8	173.1	193.3	213.5	225.0
152.5°	147.1	164.4	184.6	196.2	204.8
155°	144.2	158.7	178.9	184.6	187.5
157.5°	138.5	152.9	170.2	178.9	178.9
160°	138.5	147.1	164.4	173.1	173.1
162.5°	135.6	144.2	155.8	167.3	170.2
165°	135.6	141.4	150.0	158.7	158.7
167.5°	132.7	138.5	144.2	150.0	150.0
170°	132.7	135.6	141.4	144.2	144.2
172.5°	132.7	135.6	138.5	138.5	138.5
175°	132.7	132.7	135.6	135.6	132.7
177.5°	129.8	132.7	132.7	132.7	129.8
180°	129.8	129.8	129.8	129.8	129.8

(END OF REPORT)