

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: P213015

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213015
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-60L830-1D-UNV-4-STD-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR 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: 5611.9 lumens
Efficiency: N/A
Efficacy: 120.2 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

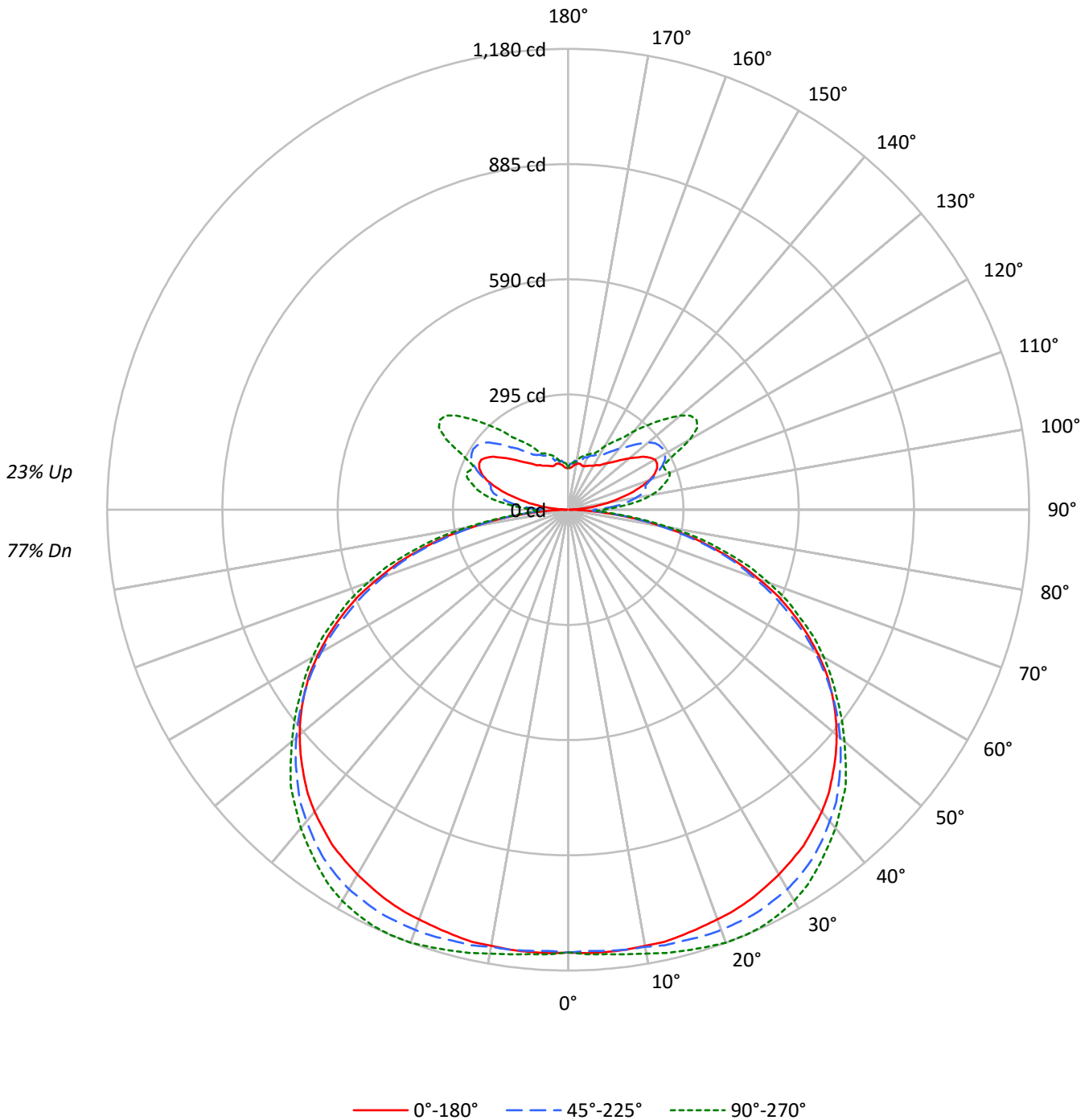
Input Watts (W): 46.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3820	3820	3820
5°	3844	3835	3864
10°	3879	3889	3948
15°	3935	3985	4076
20°	4003	4107	4231
25°	4097	4237	4376
30°	4198	4366	4501
35°	4320	4486	4592
40°	4441	4581	4682
45°	4564	4674	4784
50°	4703	4764	4839
55°	4847	4847	4932
60°	4977	4919	5093
65°	5083	4945	5222
70°	5116	4973	5371
75°	5071	4958	5408
80°	4645	4645	5150
85°	3681	4237	4462



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.9
10°-20°	325.1	5.8
20°-30°	526.3	9.4
30°-40°	680.3	12.1
40°-50°	757.1	13.5
50°-60°	742.1	13.2
60°-70°	630.0	11.2
70°-80°	413.2	7.4
80°-90°	134.7	2.4
90°-100°	125.6	2.2
100°-110°	216.6	3.9
110°-120°	261.4	4.7
120°-130°	268.2	4.8
130°-140°	188.8	3.4
140°-150°	114.9	2.0
150°-160°	69.3	1.2
160°-170°	37.8	0.7
170°-180°	11.5	0.2
0°-30°	960.1	17.1
0°-40°	1640.5	29.2
0°-60°	3139.7	55.9
0°-90°	4317.6	76.9
90°-120°	603.7	10.8
90°-150°	1175.6	20.9
90°-180°	1294.0	23.1
0°-180°	5611.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1137	1137	1134	1142	1142	108
15°	1128	1134	1142	1163	1168	319
25°	1102	1114	1140	1168	1177	509
35°	1050	1064	1090	1111	1116	657
45°	958	969	981	995	1004	740
55°	825	825	825	837	840	737
65°	638	632	620	652	655	629
75°	390	381	381	415	415	408
85°	95	98	110	118	115	110
90°	3	40	66	84	89	8
95°	43	92	130	150	153	48
105°	167	167	205	245	254	175
115°	251	242	265	271	268	245
125°	237	248	286	364	401	210
135°	176	199	234	288	317	138
145°	138	159	179	205	216	89
155°	124	138	153	159	159	58
165°	121	127	130	138	141	34
175°	110	121	118	121	121	11
180°	107	107	107	107	107	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.7	1133.7	1133.7	1133.7	1133.7
2.5°	1136.6	1136.6	1130.8	1136.6	1139.5
5°	1136.6	1136.6	1133.7	1142.4	1142.4
7.5°	1136.6	1136.6	1136.6	1145.3	1148.2
10°	1133.7	1136.6	1136.6	1151.0	1153.9
12.5°	1133.7	1136.6	1142.4	1156.8	1162.6
15°	1128.0	1133.7	1142.4	1162.6	1168.4
17.5°	1122.2	1130.8	1145.3	1168.4	1174.1
20°	1116.4	1128.0	1145.3	1171.2	1179.9
22.5°	1110.7	1122.2	1142.4	1171.2	1179.9
25°	1102.0	1113.5	1139.5	1168.4	1177.0
27.5°	1090.5	1104.9	1130.8	1159.7	1168.4
30°	1078.9	1096.2	1122.2	1148.2	1156.8
32.5°	1064.5	1081.8	1107.8	1133.7	1139.5
35°	1050.1	1064.5	1090.5	1110.7	1116.4
37.5°	1029.9	1041.4	1067.4	1087.6	1090.5
40°	1009.7	1021.2	1041.4	1061.6	1064.5
42.5°	986.6	995.3	1015.5	1029.9	1032.8
45°	957.8	969.3	980.8	995.3	1003.9
47.5°	928.9	937.6	946.2	960.6	963.5
50°	897.2	902.9	908.7	923.1	923.1
52.5°	862.6	868.3	868.3	879.9	882.8
55°	825.1	825.1	825.1	836.6	839.5
57.5°	784.7	784.7	778.9	793.3	799.1
60°	738.5	738.5	729.9	747.2	755.8
62.5°	689.5	686.6	677.9	698.1	709.7
65°	637.5	631.8	620.2	652.0	654.9
67.5°	582.7	577.0	565.4	597.2	605.8
70°	519.3	519.3	504.8	542.3	545.2
72.5°	458.7	450.0	447.1	478.9	487.5
75°	389.5	380.8	380.8	415.4	415.4
77.5°	320.2	308.7	308.7	340.4	349.1
80°	239.4	236.6	239.4	262.5	265.4
82.5°	170.2	161.5	170.2	184.6	187.5
85°	95.2	98.1	109.6	118.3	115.4
87.5°	37.5	51.9	63.5	69.2	72.1
90°	2.9	40.4	66.4	83.7	89.4
92.5°	17.3	66.4	95.2	112.5	118.3
95°	43.3	92.3	129.8	150.0	152.9
97.5°	72.1	109.6	155.8	181.7	190.4
100°	103.9	126.9	176.0	207.7	216.4
102.5°	135.6	147.1	196.2	227.9	239.4
105°	167.3	167.3	204.8	245.2	253.9
107.5°	196.2	190.4	207.7	256.7	271.2
110°	222.1	210.6	225.0	253.9	276.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.4	227.9	248.1	253.9	268.3
115°	251.0	242.3	265.4	271.2	268.3
117.5°	256.7	251.0	279.8	317.3	305.8
120°	256.7	256.7	285.6	349.1	360.6
122.5°	248.1	256.7	288.5	363.5	392.3
125°	236.6	248.1	285.6	363.5	401.0
127.5°	219.2	236.6	279.8	351.9	395.2
130°	204.8	225.0	268.3	334.6	375.0
132.5°	190.4	213.5	251.0	311.6	346.2
135°	176.0	199.1	233.7	288.5	317.3
137.5°	164.4	187.5	216.4	265.4	288.5
140°	155.8	181.7	204.8	239.4	262.5
142.5°	147.1	170.2	190.4	219.2	233.7
145°	138.5	158.7	178.9	204.8	216.4
147.5°	135.6	155.8	167.3	190.4	201.9
150°	129.8	147.1	161.5	178.9	187.5
152.5°	126.9	141.4	158.7	167.3	170.2
155°	124.0	138.5	152.9	158.7	158.7
157.5°	121.2	138.5	150.0	150.0	155.8
160°	118.3	129.8	141.4	152.9	150.0
162.5°	118.3	126.9	141.4	147.1	147.1
165°	121.2	126.9	129.8	138.5	141.4
167.5°	121.2	126.9	132.7	132.7	135.6
170°	118.3	121.2	124.0	132.7	126.9
172.5°	115.4	121.2	126.9	124.0	121.2
175°	109.6	121.2	118.3	121.2	121.2
177.5°	106.7	109.6	118.3	121.2	118.3
180°	106.7	106.7	106.7	106.7	106.7

(END OF REPORT)