

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: P213029

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35730)
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-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH FROSTED COVER, LIGHT LEVEL 5.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5617.4 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.45 / 1.53
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

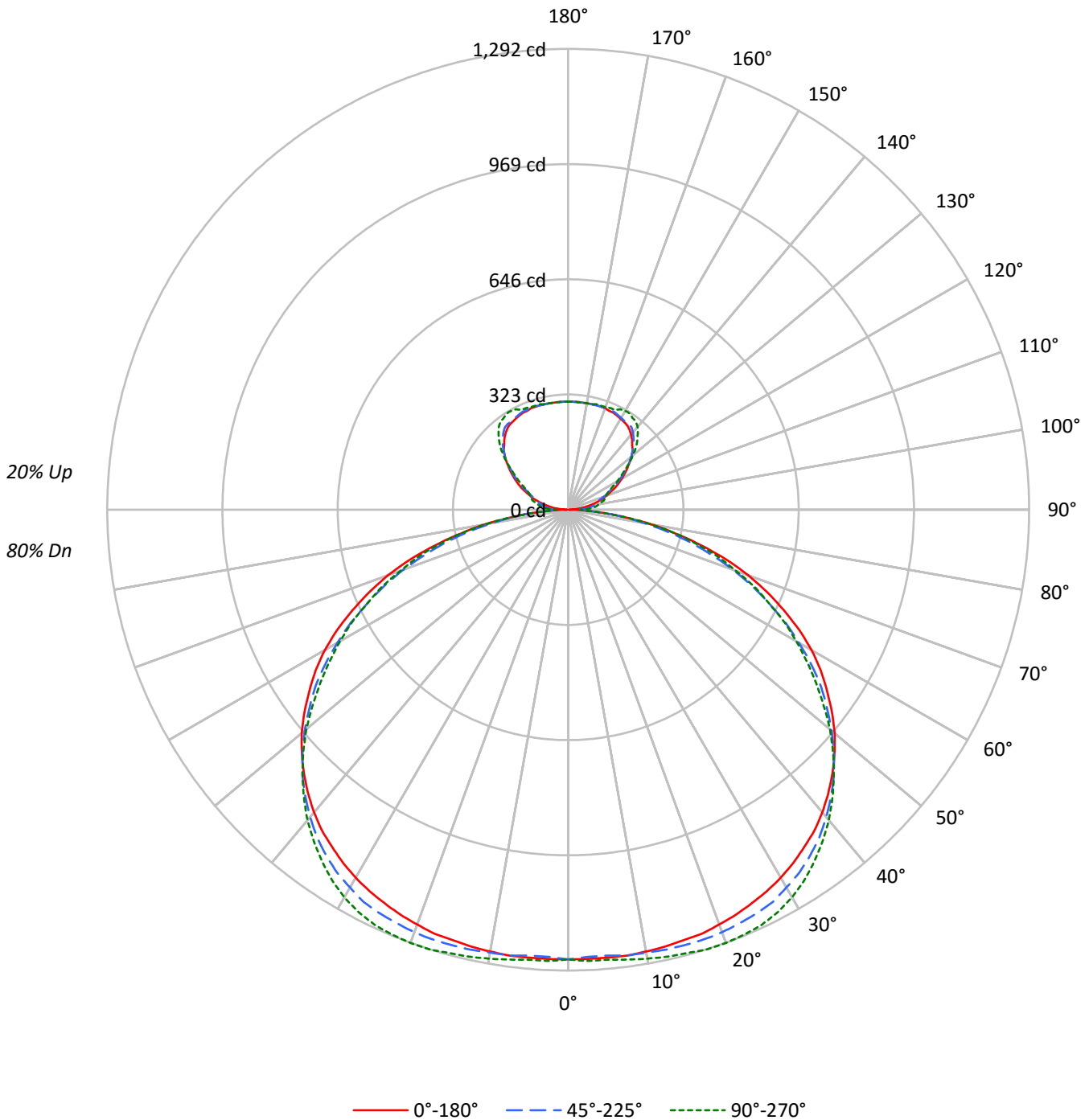
Input Watts (W): 46.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	109	100	100	100	92	92	92	84	84	84	80
1	104	99	94	90	99	95	91	87	87	84	81	80	77	75	73	71	69	66
2	94	85	78	73	89	82	76	70	75	70	66	69	65	61	63	60	57	54
3	85	74	66	60	81	71	64	58	66	59	54	60	55	51	55	51	48	45
4	78	65	57	50	74	63	55	48	58	51	46	53	48	43	49	44	40	38
5	71	58	49	42	67	56	47	41	51	44	39	47	41	37	44	39	35	32
6	65	52	43	37	62	50	42	36	46	39	34	43	37	32	39	34	30	28
7	60	47	38	32	57	45	37	31	42	35	30	39	33	28	36	31	27	24
8	56	43	34	28	53	41	33	28	38	31	26	35	29	25	33	27	24	21
9	52	39	31	25	50	37	30	25	35	28	23	32	26	22	30	25	21	19
10	49	36	28	23	47	34	27	22	32	26	21	30	24	20	28	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4248	4248	4248
5°	4264	4245	4284
10°	4304	4314	4373
15°	4357	4408	4488
20°	4438	4521	4634
25°	4526	4644	4773
30°	4636	4759	4883
35°	4747	4865	4949
40°	4873	4949	5000
45°	4990	5018	5018
50°	5112	5051	5021
55°	5203	5084	4982
60°	5308	5035	4977
65°	5313	4945	4945
70°	5287	4831	4917
75°	5033	4619	4882
80°	4591	4199	4535
85°	3568	3568	3344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	2.1
10°-20°	359.1	6.4
20°-30°	577.3	10.3
30°-40°	739.3	13.2
40°-50°	811.5	14.4
50°-60°	773.8	13.8
60°-70°	627.7	11.2
70°-80°	388.9	6.9
80°-90°	112.0	2.0
90°-100°	57.2	1.0
100°-110°	95.8	1.7
110°-120°	134.4	2.4
120°-130°	177.4	3.2
130°-140°	201.0	3.6
140°-150°	186.1	3.3
150°-160°	140.4	2.5
160°-170°	86.1	1.5
170°-180°	28.9	0.5
0°-30°	1057.0	18.8
0°-40°	1796.3	32.0
0°-60°	3381.5	60.2
0°-90°	4510.1	80.3
90°-120°	287.4	5.1
90°-150°	851.9	15.2
90°-180°	1107.0	19.7
0°-180°	5617.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1261	1261	1255	1266	1266	120
15°	1249	1255	1264	1281	1287	354
25°	1217	1229	1249	1275	1284	563
35°	1154	1166	1183	1197	1203	723
45°	1047	1053	1053	1056	1053	808
55°	886	880	865	854	848	792
65°	666	652	620	623	620	659
75°	387	369	355	372	375	408
85°	92	89	92	92	86	105
90°	3	20	29	35	35	8
95°	26	43	58	69	72	27
105°	84	84	86	101	104	89
115°	144	141	133	127	127	142
125°	202	199	196	196	193	181
135°	254	251	260	271	274	196
145°	288	286	294	309	314	180
155°	300	300	303	306	309	138
165°	303	303	303	306	306	86
175°	303	303	303	303	303	29
180°	303	303	303	303	303	



TEST NUMBER: P213029

CATALOG NUMBER: DSI-WS-60L830-1D-UNV-4-STD-FC-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260.7	1260.7	1260.7	1260.7	1260.7
2.5°	1260.7	1260.7	1254.9	1263.5	1266.4
5°	1260.7	1260.7	1254.9	1266.4	1266.4
7.5°	1260.7	1260.7	1260.7	1269.3	1272.2
10°	1257.8	1260.7	1260.7	1275.1	1278.0
12.5°	1254.9	1260.7	1263.5	1278.0	1283.7
15°	1249.1	1254.9	1263.5	1280.9	1286.6
17.5°	1246.2	1252.0	1263.5	1286.6	1292.4
20°	1237.6	1246.2	1260.7	1283.7	1292.4
22.5°	1228.9	1237.6	1254.9	1280.9	1289.5
25°	1217.4	1228.9	1249.1	1275.1	1283.7
27.5°	1205.9	1217.4	1240.5	1263.5	1272.2
30°	1191.4	1203.0	1223.2	1246.2	1254.9
32.5°	1174.1	1185.7	1205.9	1226.0	1231.8
35°	1153.9	1165.5	1182.8	1197.2	1203.0
37.5°	1133.7	1142.4	1156.8	1168.3	1171.2
40°	1107.8	1116.4	1125.1	1133.7	1136.6
42.5°	1078.9	1087.6	1090.5	1096.2	1096.2
45°	1047.2	1053.0	1053.0	1055.8	1053.0
47.5°	1012.6	1015.5	1009.7	1009.7	1006.8
50°	975.1	975.1	963.5	960.6	957.8
52.5°	931.8	928.9	914.5	908.7	902.9
55°	885.6	879.9	865.4	853.9	848.1
57.5°	839.5	830.8	807.7	796.2	793.3
60°	787.6	776.0	747.2	738.5	738.5
62.5°	729.9	715.4	686.6	680.8	683.7
65°	666.4	652.0	620.2	623.1	620.2
67.5°	602.9	585.6	556.8	562.5	565.4
70°	536.6	519.3	490.4	499.1	499.1
72.5°	464.5	444.3	421.2	438.5	441.4
75°	386.6	369.3	354.8	372.1	375.0
77.5°	308.7	297.1	285.6	305.8	308.7
80°	236.6	222.1	216.4	233.7	233.7
82.5°	155.8	152.9	155.8	164.4	161.5
85°	92.3	89.4	92.3	92.3	86.5
87.5°	40.4	40.4	37.5	31.7	34.6
90°	2.9	20.2	28.8	34.6	34.6
92.5°	14.4	34.6	49.0	54.8	54.8
95°	26.0	43.3	57.7	69.2	72.1
97.5°	40.4	49.0	66.4	77.9	80.8
100°	54.8	54.8	75.0	83.7	86.5
102.5°	69.2	69.2	80.8	92.3	95.2
105°	83.7	83.7	86.5	101.0	103.9
107.5°	101.0	98.1	92.3	103.9	109.6
110°	112.5	112.5	106.7	109.6	112.5



TEST NUMBER: P213029

CATALOG NUMBER: DSI-WS-60L830-1D-UNV-4-STD-FC-W

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.9	126.9	118.3	115.4	118.3
115°	144.2	141.4	132.7	126.9	126.9
117.5°	158.7	155.8	150.0	144.2	141.4
120°	173.1	170.2	164.4	161.5	158.7
122.5°	187.5	187.5	181.7	178.9	176.0
125°	201.9	199.1	196.2	196.2	193.3
127.5°	216.4	213.5	216.4	216.4	216.4
130°	230.8	225.0	230.8	233.7	236.6
132.5°	245.2	239.4	245.2	253.9	256.7
135°	253.9	251.0	259.6	271.2	274.1
137.5°	265.4	262.5	271.2	285.6	288.5
140°	274.1	274.1	282.7	297.1	302.9
142.5°	282.7	279.8	291.4	302.9	311.6
145°	288.5	285.6	294.3	308.7	314.4
147.5°	291.4	291.4	294.3	314.4	320.2
150°	294.3	294.3	297.1	314.4	320.2
152.5°	297.1	297.1	300.0	308.7	317.3
155°	300.0	300.0	302.9	305.8	308.7
157.5°	300.0	300.0	302.9	305.8	308.7
160°	302.9	302.9	302.9	305.8	305.8
162.5°	302.9	302.9	302.9	305.8	305.8
165°	302.9	302.9	302.9	305.8	305.8
167.5°	302.9	302.9	302.9	302.9	302.9
170°	302.9	302.9	302.9	302.9	302.9
172.5°	302.9	302.9	302.9	302.9	302.9
175°	302.9	302.9	302.9	302.9	302.9
177.5°	302.9	302.9	302.9	302.9	302.9
180°	302.9	302.9	302.9	302.9	302.9

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