

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: P213025

Luminaire Tested: **DSI-WS-60L840-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213025  
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-60L840-1D-UNV-4-STD-DC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR OPTIC WITH DUST COVER, LIGHT LEVEL 5.  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5948.6 lumens  
Efficiency: N/A  
Efficacy: 127.4 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

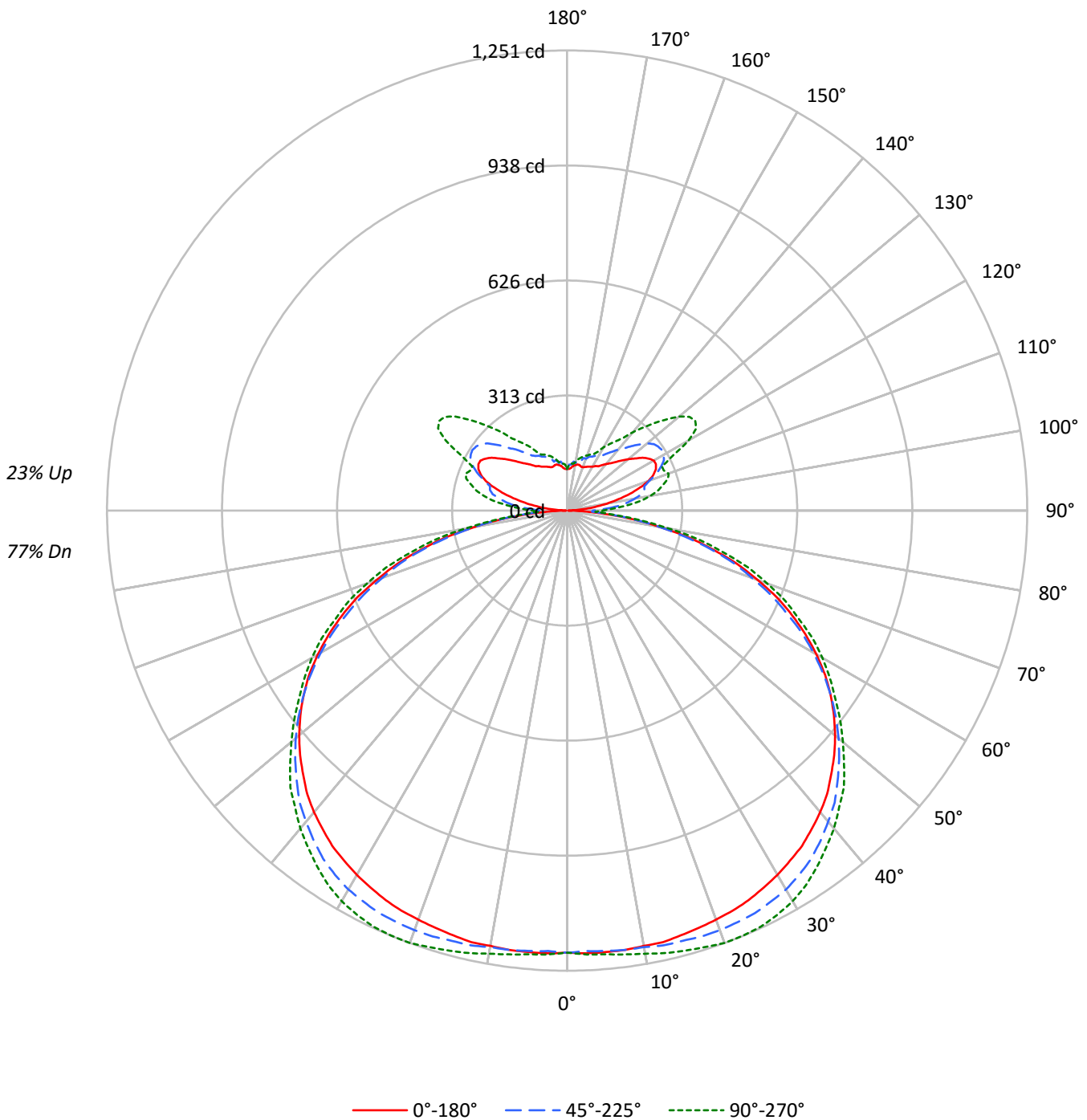
Input Watts (W): 46.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P213025

CATALOG NUMBER: DSI-WS-60L840-1D-UNV-4-STD-DC-W

### Luminous Intensity Polar Plot





TEST NUMBER: P213025

CATALOG NUMBER: DSI-WS-60L840-1D-UNV-4-STD-DC-W

**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°	4050	4050	4050
5°	4075	4065	4096
10°	4112	4122	4185
15°	4171	4224	4320
20°	4243	4353	4485
25°	4343	4491	4638
30°	4450	4628	4771
35°	4579	4755	4868
40°	4708	4856	4963
45°	4838	4954	5071
50°	4985	5049	5129
55°	5138	5138	5228
60°	5275	5213	5399
65°	5388	5242	5534
70°	5423	5272	5693
75°	5374	5254	5732
80°	4925	4925	5459
85°	3901	4492	4728



TEST NUMBER: P213025

CATALOG NUMBER: DSI-WS-60L840-1D-UNV-4-STD-DC-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.3	1.9
10°-20°	344.6	5.8
20°-30°	557.9	9.4
30°-40°	721.2	12.1
40°-50°	802.6	13.5
50°-60°	786.6	13.2
60°-70°	667.8	11.2
70°-80°	438.0	7.4
80°-90°	142.8	2.4
90°-100°	133.1	2.2
100°-110°	229.6	3.9
110°-120°	277.1	4.7
120°-130°	284.3	4.8
130°-140°	200.1	3.4
140°-150°	121.8	2.0
150°-160°	73.5	1.2
160°-170°	40.1	0.7
170°-180°	12.2	0.2
0°-30°	1017.7	17.1
0°-40°	1738.9	29.2
0°-60°	3328.1	55.9
0°-90°	4576.7	76.9
90°-120°	639.9	10.8
90°-150°	1246.1	20.9
90°-180°	1372.0	23.1
0°-180°	5948.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1205	1205	1202	1211	1211	115
15°	1196	1202	1211	1232	1238	338
25°	1168	1180	1208	1238	1248	539
35°	1113	1128	1156	1177	1183	696
45°	1015	1028	1040	1055	1064	784
55°	875	875	875	887	890	781
65°	676	670	657	691	694	666
75°	413	404	404	440	440	433
85°	101	104	116	125	122	116
90°	3	43	70	89	95	9
95°	46	98	138	159	162	51
105°	177	177	217	260	269	185
115°	266	257	281	287	284	259
125°	251	263	303	385	425	223
135°	186	211	248	306	336	146
145°	147	168	190	217	229	94
155°	132	147	162	168	168	61
165°	128	134	138	147	150	36
175°	116	128	125	128	128	11
180°	113	113	113	113	113	



TEST NUMBER: P213025

CATALOG NUMBER: DSI-WS-60L840-1D-UNV-4-STD-DC-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1201.8	1201.8	1201.8	1201.8	1201.8
2.5°	1204.8	1204.8	1198.7	1204.8	1207.9
5°	1204.8	1204.8	1201.8	1210.9	1210.9
7.5°	1204.8	1204.8	1204.8	1214.0	1217.0
10°	1201.8	1204.8	1204.8	1220.1	1223.2
12.5°	1201.8	1204.8	1210.9	1226.2	1232.3
15°	1195.6	1201.8	1210.9	1232.3	1238.5
17.5°	1189.5	1198.7	1214.0	1238.5	1244.6
20°	1183.4	1195.6	1214.0	1241.5	1250.7
22.5°	1177.3	1189.5	1210.9	1241.5	1250.7
25°	1168.1	1180.4	1207.9	1238.5	1247.6
27.5°	1155.9	1171.2	1198.7	1229.3	1238.5
30°	1143.7	1162.0	1189.5	1217.0	1226.2
32.5°	1128.4	1146.7	1174.2	1201.8	1207.9
35°	1113.1	1128.4	1155.9	1177.3	1183.4
37.5°	1091.7	1103.9	1131.4	1152.8	1155.9
40°	1070.3	1082.5	1103.9	1125.3	1128.4
42.5°	1045.8	1055.0	1076.4	1091.7	1094.7
45°	1015.2	1027.5	1039.7	1055.0	1064.2
47.5°	984.6	993.8	1003.0	1018.3	1021.3
50°	951.0	957.1	963.2	978.5	978.5
52.5°	914.3	920.4	920.4	932.7	935.7
55°	874.6	874.6	874.6	886.8	889.9
57.5°	831.8	831.8	825.6	840.9	847.0
60°	782.8	782.8	773.6	792.0	801.2
62.5°	730.8	727.8	718.6	740.0	752.2
65°	675.8	669.7	657.4	691.1	694.1
67.5°	617.7	611.6	599.3	633.0	642.2
70°	550.4	550.4	535.1	574.9	577.9
72.5°	486.2	477.0	474.0	507.6	516.8
75°	412.8	403.6	403.6	440.3	440.3
77.5°	339.4	327.2	327.2	360.8	370.0
80°	253.8	250.7	253.8	278.3	281.3
82.5°	180.4	171.2	180.4	195.7	198.8
85°	100.9	104.0	116.2	125.4	122.3
87.5°	39.8	55.0	67.3	73.4	76.4
90°	3.1	42.8	70.3	88.7	94.8
92.5°	18.3	70.3	100.9	119.3	125.4
95°	45.9	97.9	137.6	159.0	162.1
97.5°	76.4	116.2	165.1	192.6	201.8
100°	110.1	134.5	186.5	220.2	229.3
102.5°	143.7	156.0	207.9	241.6	253.8
105°	177.4	177.4	217.1	259.9	269.1
107.5°	207.9	201.8	220.2	272.2	287.4
110°	235.5	223.2	238.5	269.1	293.6



TEST NUMBER: P213025

CATALOG NUMBER: DSI-WS-60L840-1D-UNV-4-STD-DC-W

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	253.8	241.6	263.0	269.1	284.4
115°	266.0	256.9	281.3	287.4	284.4
117.5°	272.2	266.0	296.6	336.4	324.1
120°	272.2	272.2	302.7	370.0	382.2
122.5°	263.0	272.2	305.8	385.3	415.9
125°	250.7	263.0	302.7	385.3	425.0
127.5°	232.4	250.7	296.6	373.1	418.9
130°	217.1	238.5	284.4	354.7	397.5
132.5°	201.8	226.3	266.0	330.3	366.9
135°	186.5	211.0	247.7	305.8	336.4
137.5°	174.3	198.8	229.3	281.3	305.8
140°	165.1	192.6	217.1	253.8	278.3
142.5°	156.0	180.4	201.8	232.4	247.7
145°	146.8	168.2	189.6	217.1	229.3
147.5°	143.7	165.1	177.4	201.8	214.1
150°	137.6	156.0	171.2	189.6	198.8
152.5°	134.5	149.8	168.2	177.4	180.4
155°	131.5	146.8	162.1	168.2	168.2
157.5°	128.4	146.8	159.0	159.0	165.1
160°	125.4	137.6	149.8	162.1	159.0
162.5°	125.4	134.5	149.8	156.0	156.0
165°	128.4	134.5	137.6	146.8	149.8
167.5°	128.4	134.5	140.7	140.7	143.7
170°	125.4	128.4	131.5	140.7	134.5
172.5°	122.3	128.4	134.5	131.5	128.4
175°	116.2	128.4	125.4	128.4	128.4
177.5°	113.1	116.2	125.4	128.4	125.4
180°	113.1	113.1	113.1	113.1	113.1

(END OF REPORT)