

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: P213011

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35728)
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-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC, LIGHT LEVEL 5.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6039.7 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.47 / 1.54
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

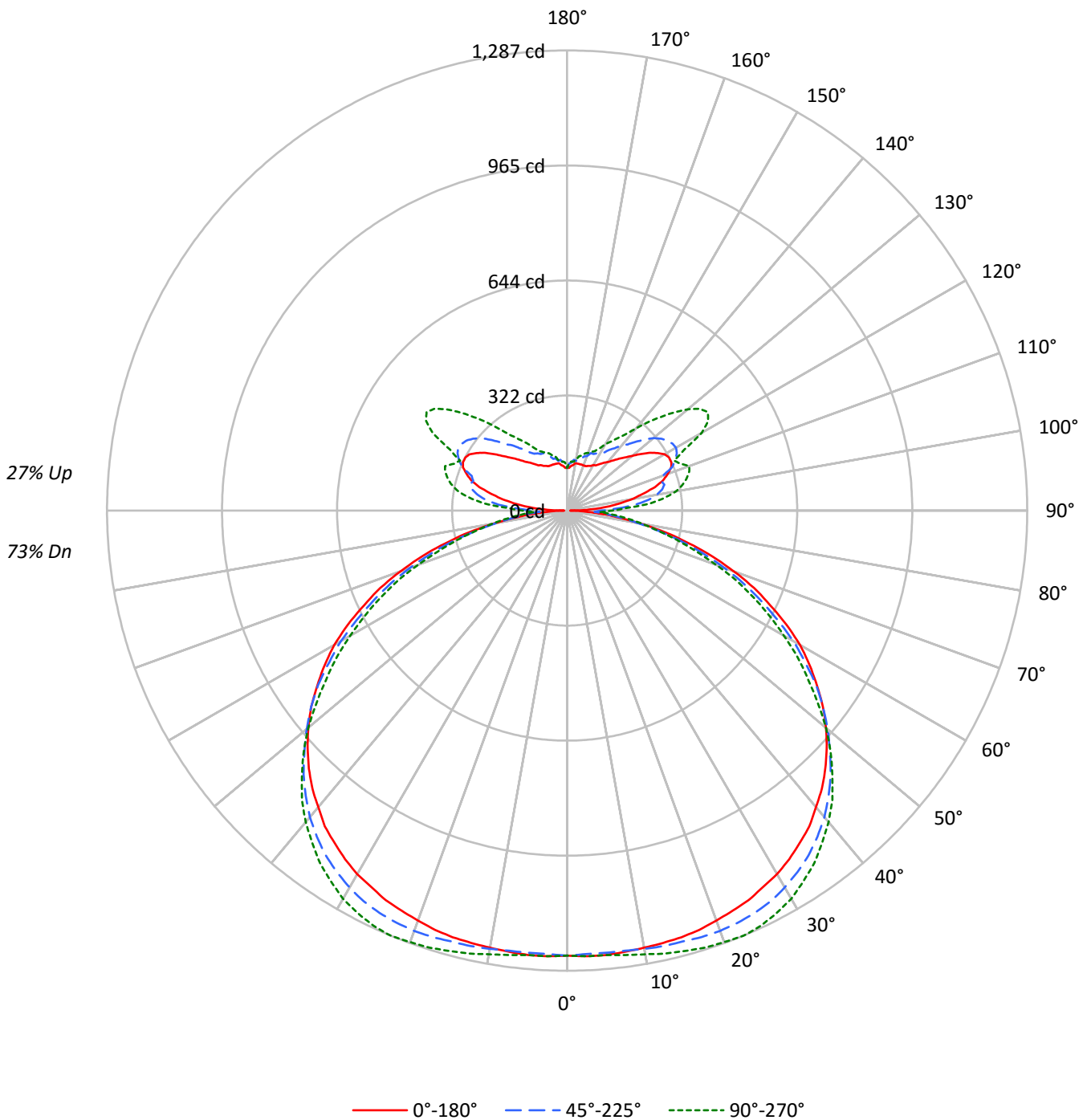
Input Watts (W): 46.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	96	96	96		86	86	86		77	77	77	73
1	102	97	93	89	97	92	89	85	83	80	78		75	73	70		67	65	64	60
2	92	84	77	72	87	80	74	69	72	67	63		65	61	58		58	55	53	49
3	84	74	65	59	79	70	63	57	63	57	52		57	52	48		51	47	44	41
4	77	65	56	49	72	62	54	48	56	49	44		50	45	41		45	41	37	34
5	70	57	49	42	66	55	47	41	50	43	38		45	39	35		40	36	32	29
6	65	51	43	36	61	49	41	35	45	38	33		40	35	30		36	32	28	25
7	60	46	38	32	56	44	36	31	40	34	29		37	31	27		33	28	25	22
8	55	42	34	28	52	40	32	27	37	30	25		33	28	24		30	26	22	20
9	51	38	30	25	49	37	29	24	34	27	23		31	25	21		28	23	20	18
10	48	35	27	22	46	34	27	22	31	25	20		28	23	19		26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4194	4194	4194
5°	4220	4199	4220
10°	4248	4258	4311
15°	4310	4352	4448
20°	4375	4485	4605
25°	4468	4616	4764
30°	4569	4735	4878
35°	4667	4843	4956
40°	4762	4923	5003
45°	4867	4969	4998
50°	4953	4985	4953
55°	5012	4994	4833
60°	5069	4925	4719
65°	4998	4778	4584
70°	4881	4610	4368
75°	4579	4300	4140
80°	3976	3858	4155
85°	3193	4257	4964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	2.0
10°-20°	355.1	5.9
20°-30°	573.0	9.5
30°-40°	734.3	12.2
40°-50°	801.8	13.3
50°-60°	753.6	12.5
60°-70°	594.5	9.8
70°-80°	352.3	5.8
80°-90°	129.3	2.1
90°-100°	190.0	3.1
100°-110°	299.7	5.0
110°-120°	328.9	5.4
120°-130°	321.4	5.3
130°-140°	219.6	3.6
140°-150°	132.0	2.2
150°-160°	79.0	1.3
160°-170°	43.1	0.7
170°-180°	13.1	0.2
0°-30°	1047.1	17.3
0°-40°	1781.4	29.5
0°-60°	3336.9	55.2
0°-90°	4412.9	73.1
90°-120°	818.7	13.6
90°-150°	1491.6	24.7
90°-180°	1627.0	26.9
0°-180°	6039.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1248	1248	1242	1248	1248	119
15°	1235	1238	1248	1269	1275	349
25°	1202	1214	1242	1272	1281	554
35°	1134	1150	1177	1202	1205	711
45°	1021	1030	1043	1052	1049	787
55°	853	856	850	835	823	763
65°	627	621	599	587	575	621
75°	352	346	330	318	318	371
85°	83	89	110	125	128	94
90°	9	55	95	116	125	15
95°	104	147	193	226	236	100
105°	254	242	281	330	346	262
115°	321	309	333	330	330	314
125°	281	300	342	431	480	251
135°	205	229	272	333	370	160
145°	159	184	208	236	248	101
155°	138	156	174	180	184	64
165°	134	147	150	156	159	38
175°	125	138	134	138	138	12
180°	119	119	119	119	119	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1244.6	1244.6	1244.6	1244.6	1244.6
2.5°	1247.6	1247.6	1241.5	1247.6	1247.6
5°	1247.6	1247.6	1241.5	1247.6	1247.6
7.5°	1244.6	1244.6	1241.5	1253.7	1253.7
10°	1241.5	1244.6	1244.6	1259.9	1259.9
12.5°	1238.5	1241.5	1247.6	1262.9	1269.0
15°	1235.4	1238.5	1247.6	1269.0	1275.1
17.5°	1229.3	1235.4	1250.7	1275.1	1281.3
20°	1220.1	1229.3	1250.7	1278.2	1284.3
22.5°	1210.9	1223.2	1247.6	1275.1	1287.4
25°	1201.8	1214.0	1241.5	1272.1	1281.3
27.5°	1186.5	1201.8	1232.3	1259.9	1269.0
30°	1174.2	1189.5	1217.0	1244.6	1253.7
32.5°	1155.9	1171.2	1198.7	1223.2	1229.3
35°	1134.5	1149.8	1177.3	1201.8	1204.8
37.5°	1113.1	1128.4	1149.8	1168.1	1171.2
40°	1082.5	1097.8	1119.2	1131.4	1137.5
42.5°	1055.0	1070.3	1082.5	1094.7	1097.8
45°	1021.3	1030.5	1042.7	1051.9	1048.9
47.5°	984.6	993.8	996.9	1006.1	999.9
50°	944.9	951.0	951.0	951.0	944.9
52.5°	902.1	902.1	902.1	892.9	883.7
55°	853.2	856.2	850.1	834.8	822.6
57.5°	804.2	804.2	788.9	773.7	764.5
60°	752.2	743.1	730.8	709.4	700.3
62.5°	691.1	681.9	663.6	648.3	639.1
65°	626.9	620.8	599.3	587.1	574.9
67.5°	565.7	556.5	535.1	516.8	513.7
70°	495.4	489.3	467.9	452.6	443.4
72.5°	425.0	415.9	397.5	385.3	376.1
75°	351.7	345.5	330.3	318.0	318.0
77.5°	281.3	275.2	259.9	259.9	259.9
80°	204.9	204.9	198.8	207.9	214.1
82.5°	140.7	140.7	149.8	165.1	168.2
85°	82.6	88.7	110.1	125.4	128.4
87.5°	36.7	52.0	76.4	88.7	91.7
90°	9.2	55.0	94.8	116.2	125.4
92.5°	55.0	104.0	143.7	159.0	165.1
95°	104.0	146.8	192.6	226.3	235.5
97.5°	143.7	174.3	229.3	266.0	275.2
100°	183.5	186.5	253.8	296.6	308.8
102.5°	217.1	214.1	272.2	315.0	330.3
105°	253.8	241.6	281.3	330.3	345.5
107.5°	281.3	263.0	275.2	342.5	357.8
110°	299.7	284.4	284.4	333.3	363.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	315.0	299.7	318.0	318.0	342.5
115°	321.1	308.8	333.3	330.3	330.3
117.5°	321.1	315.0	345.5	388.4	370.0
120°	315.0	318.0	351.7	425.0	434.2
122.5°	299.7	311.9	348.6	437.3	467.9
125°	281.3	299.7	342.5	431.2	480.1
127.5°	259.9	284.4	330.3	418.9	467.9
130°	238.5	266.0	315.0	394.5	440.3
132.5°	220.2	250.7	293.6	363.9	406.7
135°	204.9	229.3	272.2	333.3	370.0
137.5°	189.6	217.1	250.7	305.8	336.4
140°	177.4	207.9	238.5	275.2	299.7
142.5°	168.2	195.7	220.2	250.7	269.1
145°	159.0	183.5	207.9	235.5	247.7
147.5°	149.8	177.4	192.6	220.2	229.3
150°	146.8	168.2	183.5	204.9	214.1
152.5°	140.7	159.0	180.4	192.6	195.7
155°	137.6	156.0	174.3	180.4	183.5
157.5°	134.5	156.0	174.3	174.3	177.4
160°	134.5	146.8	162.1	174.3	171.2
162.5°	134.5	143.7	159.0	171.2	168.2
165°	134.5	146.8	149.8	156.0	159.0
167.5°	134.5	143.7	149.8	152.9	156.0
170°	134.5	137.6	140.7	149.8	143.7
172.5°	128.4	137.6	143.7	140.7	137.6
175°	125.4	137.6	134.5	137.6	137.6
177.5°	119.3	125.4	131.5	134.5	134.5
180°	119.3	119.3	119.3	119.3	119.3

(END OF REPORT)