

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: P213095

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35734)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WD-60L840-1D-UNV-4-STD-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH FROSTED COVER, LIGHT LEVEL 5.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6118.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.43 / 1.52
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

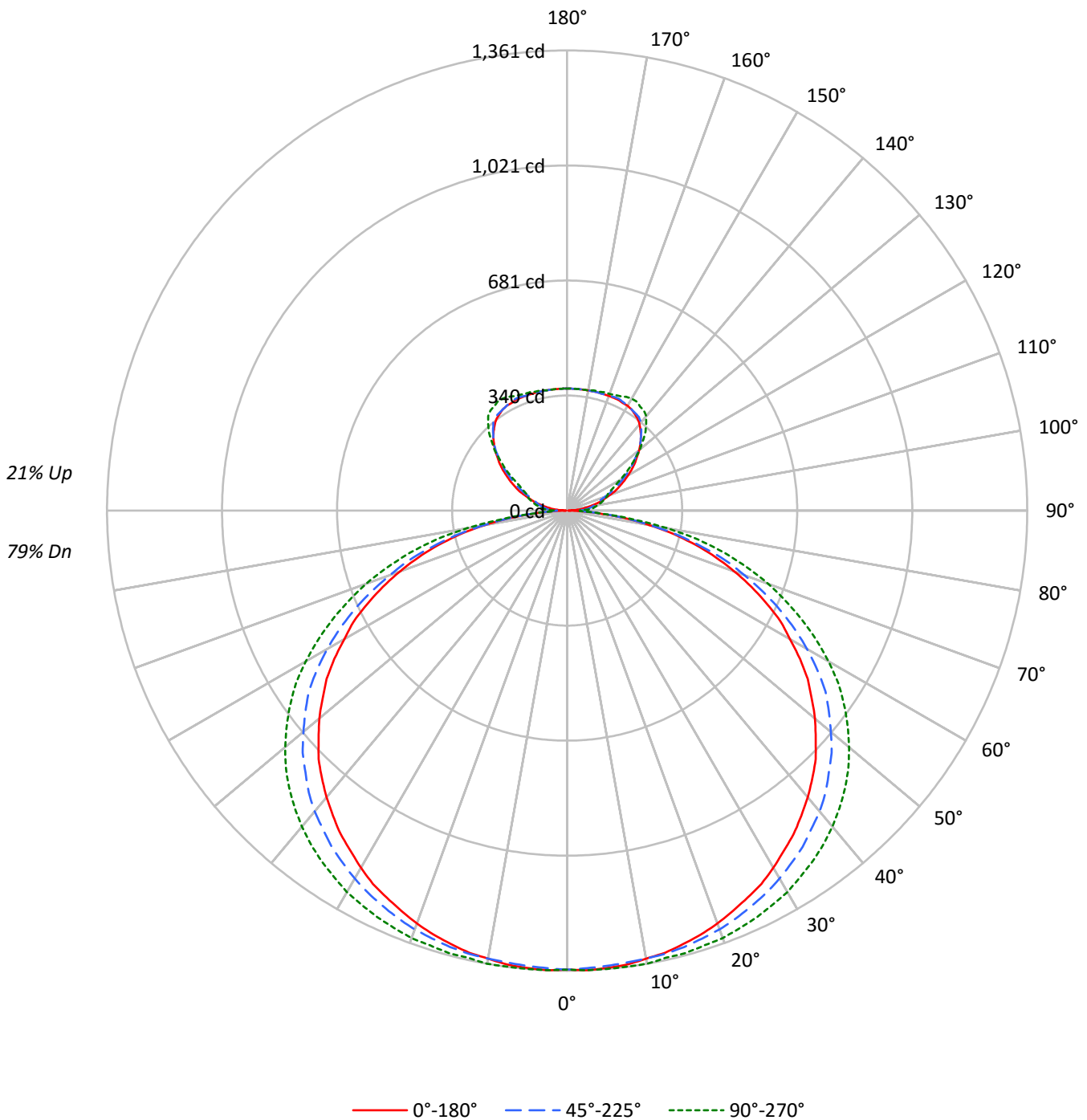
Input Watts (W): 46.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	82	82	82	79
1	103	98	94	90	98	94	90	86	86	83	80	78	76	73	71	69	68	64
2	93	85	78	72	89	81	75	69	74	69	64	68	63	60	62	58	55	52
3	84	74	65	59	80	71	63	57	64	58	53	59	54	50	54	50	46	43
4	77	65	56	49	73	62	54	48	57	50	45	52	46	42	47	43	39	36
5	70	57	48	42	67	55	47	40	51	44	38	46	40	36	42	37	34	31
6	65	51	42	36	61	49	41	35	45	38	33	42	36	31	38	33	29	27
7	60	46	38	31	57	44	36	31	41	34	29	38	32	27	35	30	26	23
8	56	42	34	28	53	40	32	27	37	30	26	34	28	24	32	27	23	21
9	52	38	30	25	49	37	29	24	34	27	23	32	26	22	29	24	20	18
10	48	35	27	22	46	34	27	22	31	25	21	29	23	19	27	22	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4575	4575	4575
5°	4592	4572	4603
10°	4604	4604	4656
15°	4630	4662	4725
20°	4660	4726	4825
25°	4695	4798	4934
30°	4747	4890	5069
35°	4805	4994	5208
40°	4869	5111	5367
45°	4954	5217	5537
50°	5017	5338	5707
55°	5102	5479	5874
60°	5131	5523	6017
65°	5193	5534	6119
70°	5182	5483	6236
75°	5136	5374	6250
80°	4807	4865	5816
85°	3545	3785	3901



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	2.1
10°-20°	378.9	6.2
20°-30°	597.4	9.8
30°-40°	761.2	12.4
40°-50°	847.7	13.9
50°-60°	831.4	13.6
60°-70°	694.5	11.4
70°-80°	447.5	7.3
80°-90°	125.7	2.1
90°-100°	60.8	1.0
100°-110°	106.9	1.7
110°-120°	156.4	2.6
120°-130°	210.2	3.4
130°-140°	240.4	3.9
140°-150°	223.8	3.7
150°-160°	168.8	2.8
160°-170°	102.7	1.7
170°-180°	34.4	0.6
0°-30°	1105.7	18.1
0°-40°	1866.9	30.5
0°-60°	3545.9	58.0
0°-90°	4813.6	78.7
90°-120°	324.1	5.3
90°-150°	998.5	16.3
90°-180°	1304.0	21.3
0°-180°	6118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1358	1358	1352	1361	1361	129
15°	1327	1333	1336	1348	1355	375
25°	1263	1272	1290	1318	1327	583
35°	1168	1180	1214	1251	1266	731
45°	1040	1055	1095	1144	1162	800
55°	868	887	933	976	1000	773
65°	651	667	694	746	768	643
75°	394	401	413	459	480	413
85°	92	95	98	104	101	110
90°	3	21	31	37	37	8
95°	31	46	61	70	76	32
105°	101	95	95	107	110	105
115°	171	168	156	147	144	170
125°	245	238	236	229	229	218
135°	309	303	309	321	327	237
145°	349	346	352	370	376	218
155°	361	361	364	370	373	166
165°	361	361	361	364	364	102
175°	361	361	361	361	361	34
180°	361	361	361	361	361	



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CATALOG NUMBER: DSI-WD-60L840-1D-UNV-4-STD-FC-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.7	1357.7	1357.7	1357.7	1357.7
2.5°	1360.8	1360.8	1354.6	1360.8	1360.8
5°	1357.7	1357.7	1351.6	1360.8	1360.8
7.5°	1354.6	1354.6	1348.5	1360.8	1360.8
10°	1345.5	1348.5	1345.5	1357.7	1360.8
12.5°	1339.4	1342.4	1342.4	1354.6	1354.6
15°	1327.1	1333.2	1336.3	1348.5	1354.6
17.5°	1314.9	1321.0	1327.1	1342.4	1348.5
20°	1299.6	1305.7	1318.0	1336.3	1345.5
22.5°	1281.3	1290.4	1305.7	1327.1	1336.3
25°	1262.9	1272.1	1290.4	1318.0	1327.1
27.5°	1244.6	1253.7	1275.1	1302.7	1314.9
30°	1220.1	1232.3	1256.8	1287.4	1302.7
32.5°	1192.6	1207.9	1235.4	1269.0	1284.3
35°	1168.1	1180.3	1214.0	1250.7	1266.0
37.5°	1137.5	1152.8	1186.5	1229.3	1244.6
40°	1107.0	1125.3	1162.0	1201.8	1220.1
42.5°	1073.3	1088.6	1131.4	1174.2	1192.6
45°	1039.7	1055.0	1094.7	1143.7	1162.0
47.5°	996.9	1018.3	1061.1	1110.0	1128.4
50°	957.1	975.5	1018.3	1070.3	1088.6
52.5°	911.3	935.7	975.5	1024.4	1045.8
55°	868.4	886.8	932.7	975.5	999.9
57.5°	816.5	837.9	877.6	923.5	951.0
60°	761.4	782.8	819.5	865.4	892.9
62.5°	712.5	724.7	758.4	807.3	831.7
65°	651.3	666.6	694.1	746.1	767.5
67.5°	590.2	602.4	626.9	678.9	700.3
70°	526.0	538.2	556.5	608.5	633.0
72.5°	461.7	470.9	492.3	535.1	556.5
75°	394.5	400.6	412.8	458.7	480.1
77.5°	324.1	324.1	336.4	376.1	397.5
80°	247.7	247.7	250.7	287.4	299.7
82.5°	171.2	165.1	171.2	192.6	195.7
85°	91.7	94.8	97.9	104.0	100.9
87.5°	33.6	39.8	42.8	39.8	39.8
90°	3.1	21.4	30.6	36.7	36.7
92.5°	15.3	36.7	52.0	55.0	58.1
95°	30.6	45.9	61.2	70.3	76.4
97.5°	48.9	52.0	70.3	82.6	82.6
100°	64.2	64.2	79.5	91.7	91.7
102.5°	82.6	79.5	88.7	97.9	100.9
105°	100.9	94.8	94.8	107.0	110.1
107.5°	116.2	113.1	104.0	116.2	119.3
110°	134.5	131.5	119.3	122.3	125.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	156.0	149.8	137.6	131.5	131.5
115°	171.2	168.2	156.0	146.8	143.7
117.5°	189.6	183.5	174.3	165.1	159.0
120°	207.9	201.8	192.6	186.5	180.4
122.5°	226.3	223.2	214.1	207.9	204.9
125°	244.6	238.5	235.5	229.3	229.3
127.5°	259.9	256.9	253.8	253.8	253.8
130°	278.3	272.2	275.2	275.2	281.3
132.5°	293.6	287.4	293.6	299.7	302.7
135°	308.8	302.7	308.8	321.1	327.2
137.5°	321.1	318.0	324.1	339.4	345.5
140°	333.3	330.3	339.4	354.7	363.9
142.5°	342.5	339.4	348.6	363.9	373.1
145°	348.6	345.5	351.7	370.0	376.1
147.5°	354.7	351.7	354.7	376.1	382.2
150°	357.8	357.8	357.8	376.1	382.2
152.5°	357.8	357.8	360.8	370.0	379.2
155°	360.8	360.8	363.9	370.0	373.1
157.5°	360.8	360.8	363.9	366.9	370.0
160°	360.8	360.8	360.8	366.9	366.9
162.5°	360.8	360.8	360.8	363.9	366.9
165°	360.8	360.8	360.8	363.9	363.9
167.5°	360.8	360.8	360.8	363.9	363.9
170°	360.8	360.8	360.8	360.8	360.8
172.5°	360.8	360.8	360.8	360.8	360.8
175°	360.8	360.8	360.8	360.8	360.8
177.5°	360.8	360.8	360.8	360.8	360.8
180°	360.8	360.8	360.8	360.8	360.8

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