

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: P213034

Luminaire Tested: **DSI-WS-60L835-1D-UNV-4-STD-FC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213034
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-60L835-1D-UNV-4-STD-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH FROSTED COVER, LIGHT LEVEL 5.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5883.8 lumens
Efficiency: N/A
Efficacy: 126.0 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

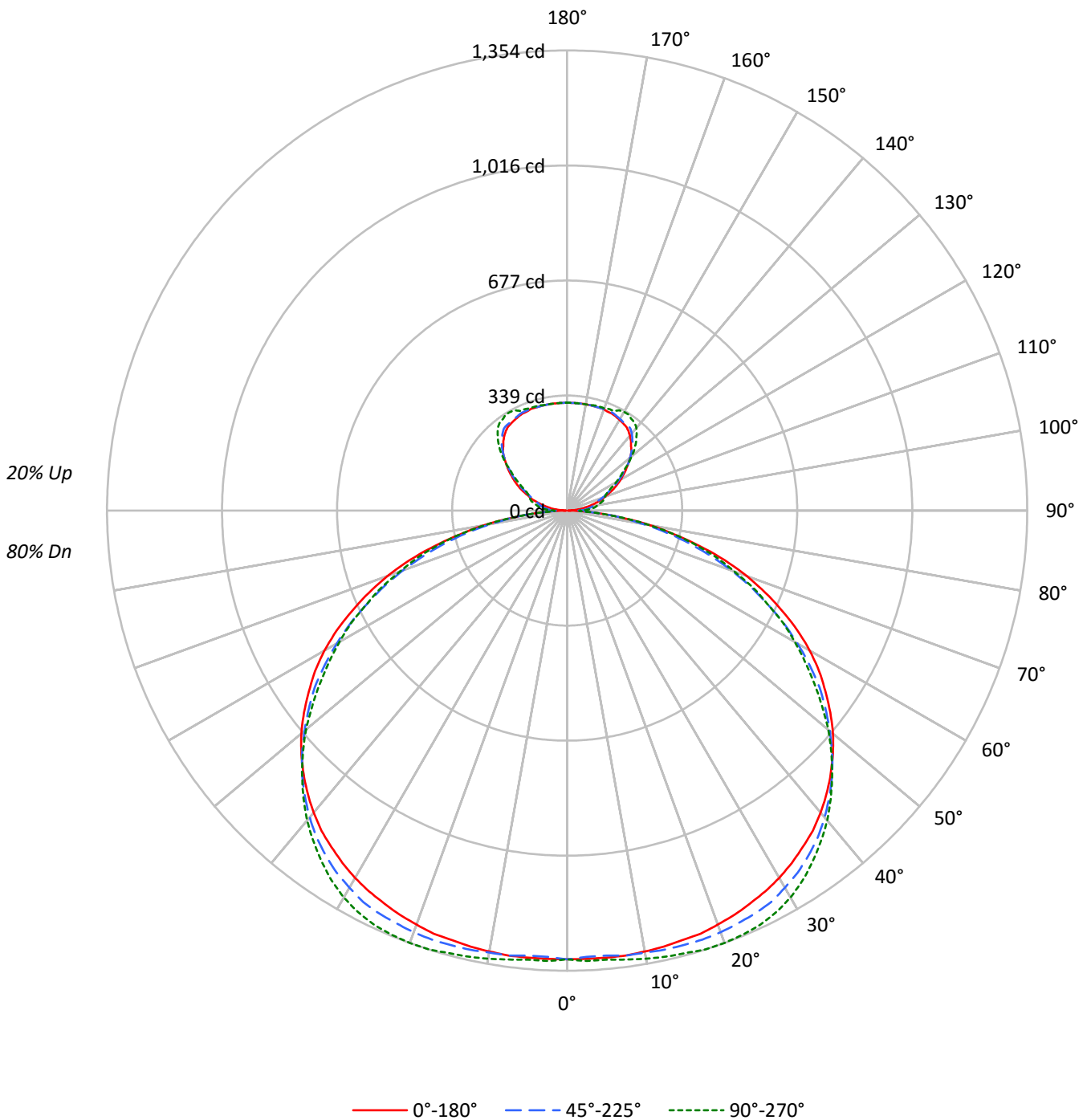
Input Watts (W): 46.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4449	4449	4449
5°	4466	4446	4487
10°	4508	4518	4580
15°	4564	4617	4701
20°	4648	4735	4854
25°	4741	4864	4999
30°	4855	4985	5114
35°	4972	5096	5183
40°	5104	5183	5237
45°	5227	5256	5256
50°	5354	5290	5259
55°	5449	5325	5218
60°	5559	5274	5213
65°	5565	5179	5179
70°	5537	5061	5150
75°	5271	4839	5114
80°	4808	4397	4748
85°	3739	3739	3503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	2.1
10°-20°	376.1	6.4
20°-30°	604.6	10.3
30°-40°	774.4	13.2
40°-50°	850.0	14.4
50°-60°	810.5	13.8
60°-70°	657.4	11.2
70°-80°	407.3	6.9
80°-90°	117.3	2.0
90°-100°	59.9	1.0
100°-110°	100.4	1.7
110°-120°	140.7	2.4
120°-130°	185.8	3.2
130°-140°	210.5	3.6
140°-150°	194.9	3.3
150°-160°	147.1	2.5
160°-170°	90.2	1.5
170°-180°	30.3	0.5
0°-30°	1107.1	18.8
0°-40°	1881.4	32.0
0°-60°	3541.9	60.2
0°-90°	4724.0	80.3
90°-120°	301.0	5.1
90°-150°	892.3	15.2
90°-180°	1160.0	19.7
0°-180°	5883.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1320	1320	1314	1326	1326	126
15°	1308	1314	1324	1342	1348	371
25°	1275	1287	1308	1336	1345	589
35°	1209	1221	1239	1254	1260	757
45°	1097	1103	1103	1106	1103	846
55°	928	922	906	894	888	830
65°	698	683	650	653	650	690
75°	405	387	372	390	393	427
85°	97	94	97	97	91	110
90°	3	21	30	36	36	9
95°	27	45	60	72	76	29
105°	88	88	91	106	109	93
115°	151	148	139	133	133	148
125°	212	208	206	206	202	189
135°	266	263	272	284	287	206
145°	302	299	308	323	329	188
155°	314	314	317	320	323	145
165°	317	317	317	320	320	90
175°	317	317	317	317	317	30
180°	317	317	317	317	317	



TEST NUMBER: P213034

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.4	1320.4	1320.4	1320.4	1320.4
2.5°	1320.4	1320.4	1314.4	1323.5	1326.5
5°	1320.4	1320.4	1314.4	1326.5	1326.5
7.5°	1320.4	1320.4	1320.4	1329.5	1332.5
10°	1317.4	1320.4	1320.4	1335.5	1338.6
12.5°	1314.4	1320.4	1323.5	1338.6	1344.6
15°	1308.3	1314.4	1323.5	1341.6	1347.6
17.5°	1305.3	1311.4	1323.5	1347.6	1353.7
20°	1296.3	1305.3	1320.4	1344.6	1353.7
22.5°	1287.2	1296.3	1314.4	1341.6	1350.6
25°	1275.1	1287.2	1308.3	1335.5	1344.6
27.5°	1263.0	1275.1	1299.3	1323.5	1332.5
30°	1247.9	1260.0	1281.2	1305.3	1314.4
32.5°	1229.8	1241.9	1263.0	1284.2	1290.2
35°	1208.6	1220.7	1238.8	1254.0	1260.0
37.5°	1187.5	1196.5	1211.7	1223.7	1226.8
40°	1160.3	1169.4	1178.4	1187.5	1190.5
42.5°	1130.1	1139.1	1142.2	1148.2	1148.2
45°	1096.8	1102.9	1102.9	1105.9	1102.9
47.5°	1060.6	1063.6	1057.6	1057.6	1054.5
50°	1021.3	1021.3	1009.2	1006.2	1003.2
52.5°	976.0	972.9	957.8	951.8	945.8
55°	927.6	921.6	906.5	894.4	888.3
57.5°	879.3	870.2	846.0	834.0	830.9
60°	824.9	812.8	782.6	773.5	773.5
62.5°	764.5	749.4	719.1	713.1	716.1
65°	698.0	682.9	649.6	652.7	649.6
67.5°	631.5	613.4	583.2	589.2	592.2
70°	562.0	543.9	513.7	522.7	522.7
72.5°	486.5	465.3	441.2	459.3	462.3
75°	404.9	386.8	371.7	389.8	392.8
77.5°	323.3	311.2	299.1	320.3	323.3
80°	247.8	232.7	226.6	244.7	244.7
82.5°	163.2	160.1	163.2	172.2	169.2
85°	96.7	93.7	96.7	96.7	90.6
87.5°	42.3	42.3	39.3	33.2	36.3
90°	3.0	21.2	30.2	36.3	36.3
92.5°	15.1	36.3	51.4	57.4	57.4
95°	27.2	45.3	60.4	72.5	75.5
97.5°	42.3	51.4	69.5	81.6	84.6
100°	57.4	57.4	78.6	87.6	90.6
102.5°	72.5	72.5	84.6	96.7	99.7
105°	87.6	87.6	90.6	105.8	108.8
107.5°	105.8	102.7	96.7	108.8	114.8
110°	117.8	117.8	111.8	114.8	117.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	132.9	132.9	123.9	120.9	123.9
115°	151.1	148.1	139.0	132.9	132.9
117.5°	166.2	163.2	157.1	151.1	148.1
120°	181.3	178.3	172.2	169.2	166.2
122.5°	196.4	196.4	190.4	187.3	184.3
125°	211.5	208.5	205.5	205.5	202.4
127.5°	226.6	223.6	226.6	226.6	226.6
130°	241.7	235.7	241.7	244.7	247.8
132.5°	256.8	250.8	256.8	265.9	268.9
135°	265.9	262.9	271.9	284.0	287.1
137.5°	278.0	275.0	284.0	299.1	302.2
140°	287.1	287.1	296.1	311.2	317.3
142.5°	296.1	293.1	305.2	317.3	326.3
145°	302.2	299.1	308.2	323.3	329.4
147.5°	305.2	305.2	308.2	329.4	335.4
150°	308.2	308.2	311.2	329.4	335.4
152.5°	311.2	311.2	314.2	323.3	332.4
155°	314.2	314.2	317.3	320.3	323.3
157.5°	314.2	314.2	317.3	320.3	323.3
160°	317.3	317.3	317.3	320.3	320.3
162.5°	317.3	317.3	317.3	320.3	320.3
165°	317.3	317.3	317.3	320.3	320.3
167.5°	317.3	317.3	317.3	317.3	317.3
170°	317.3	317.3	317.3	317.3	317.3
172.5°	317.3	317.3	317.3	317.3	317.3
175°	317.3	317.3	317.3	317.3	317.3
177.5°	317.3	317.3	317.3	317.3	317.3
180°	317.3	317.3	317.3	317.3	317.3

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