

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: P213033

Luminaire Tested: **DSI-WS-50L835-1D-UNV-4-STD-FC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213033
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-50L835-1D-UNV-4-STD-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH FROSTED COVER, LIGHT LEVEL 4.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4968.3 lumens
Efficiency: N/A
Efficacy: 131.4 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

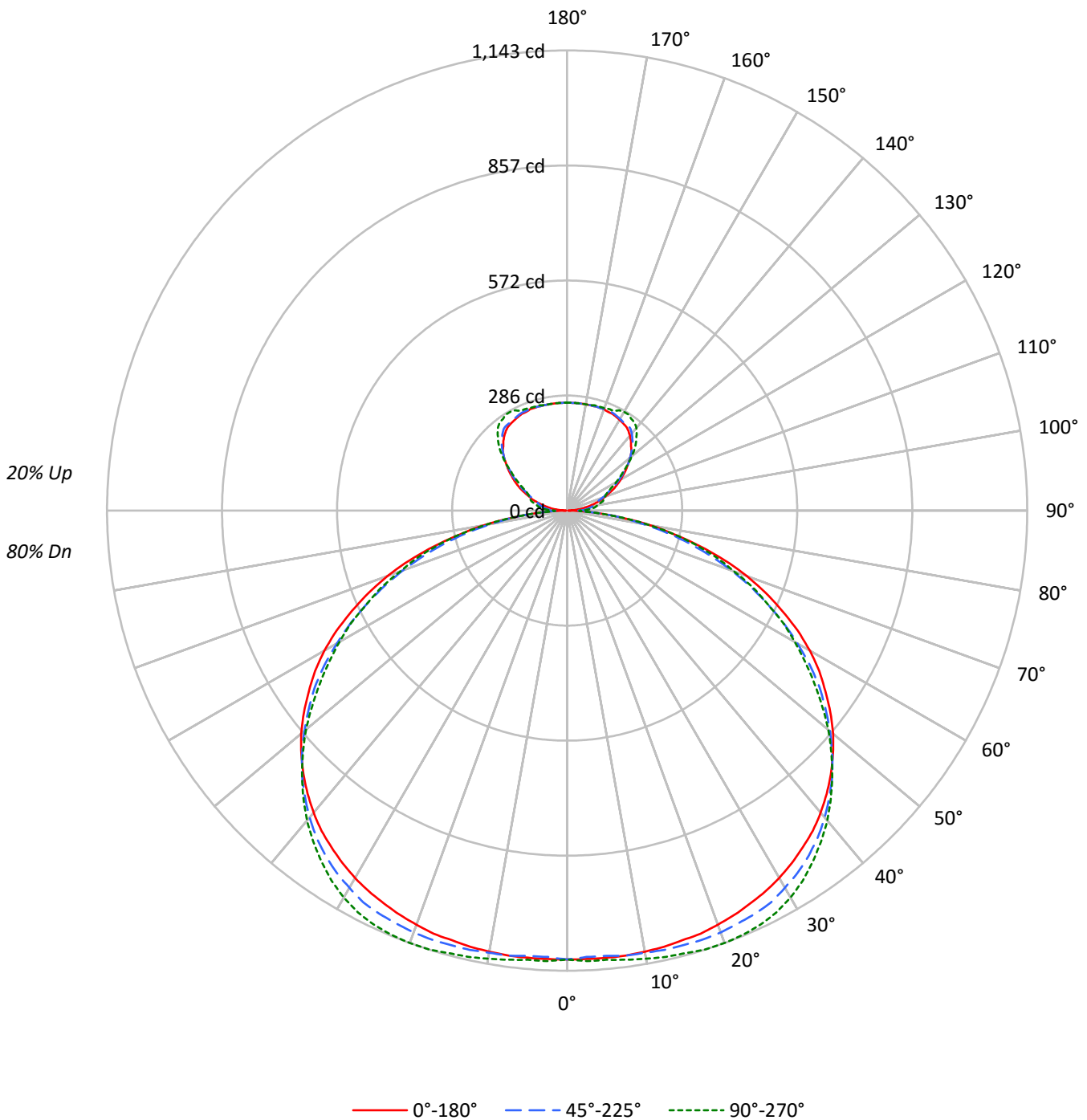
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3757	3757	3757
5°	3771	3754	3789
10°	3806	3815	3867
15°	3854	3898	3969
20°	3925	3998	4099
25°	4003	4108	4221
30°	4100	4209	4318
35°	4198	4303	4377
40°	4310	4377	4422
45°	4414	4438	4438
50°	4521	4467	4441
55°	4602	4496	4407
60°	4694	4453	4402
65°	4699	4374	4374
70°	4676	4273	4349
75°	4451	4085	4318
80°	4059	3714	4011
85°	3155	3155	2958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	2.1
10°-20°	317.6	6.4
20°-30°	510.5	10.3
30°-40°	653.9	13.2
40°-50°	717.7	14.4
50°-60°	684.4	13.8
60°-70°	555.1	11.2
70°-80°	344.0	6.9
80°-90°	99.1	2.0
90°-100°	50.6	1.0
100°-110°	84.8	1.7
110°-120°	118.8	2.4
120°-130°	156.9	3.2
130°-140°	177.8	3.6
140°-150°	164.6	3.3
150°-160°	124.2	2.5
160°-170°	76.1	1.5
170°-180°	25.6	0.5
0°-30°	934.8	18.8
0°-40°	1588.7	32.0
0°-60°	2990.8	60.2
0°-90°	3988.9	80.3
90°-120°	254.2	5.1
90°-150°	753.4	15.2
90°-180°	979.0	19.7
0°-180°	4968.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1115	1115	1110	1120	1120	106
15°	1105	1110	1118	1133	1138	313
25°	1077	1087	1105	1128	1135	498
35°	1021	1031	1046	1059	1064	640
45°	926	931	931	934	931	715
55°	783	778	765	755	750	700
65°	589	577	549	551	549	583
75°	342	327	314	329	332	361
85°	82	79	82	82	76	93
90°	3	18	26	31	31	7
95°	23	38	51	61	64	24
105°	74	74	76	89	92	79
115°	128	125	117	112	112	125
125°	179	176	174	174	171	160
135°	224	222	230	240	242	174
145°	255	253	260	273	278	159
155°	265	265	268	270	273	122
165°	268	268	268	270	270	76
175°	268	268	268	268	268	26
180°	268	268	268	268	268	



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CATALOG NUMBER: DSI-WS-50L835-1D-UNV-4-STD-FC-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.0	1115.0	1115.0	1115.0	1115.0
2.5°	1115.0	1115.0	1109.9	1117.5	1120.1
5°	1115.0	1115.0	1109.9	1120.1	1120.1
7.5°	1115.0	1115.0	1115.0	1122.6	1125.2
10°	1112.4	1115.0	1115.0	1127.7	1130.3
12.5°	1109.9	1115.0	1117.5	1130.3	1135.4
15°	1104.8	1109.9	1117.5	1132.8	1137.9
17.5°	1102.2	1107.3	1117.5	1137.9	1143.0
20°	1094.6	1102.2	1115.0	1135.4	1143.0
22.5°	1086.9	1094.6	1109.9	1132.8	1140.5
25°	1076.7	1086.9	1104.8	1127.7	1135.4
27.5°	1066.5	1076.7	1097.1	1117.5	1125.2
30°	1053.7	1064.0	1081.8	1102.2	1109.9
32.5°	1038.4	1048.6	1066.5	1084.4	1089.5
35°	1020.6	1030.8	1046.1	1058.9	1064.0
37.5°	1002.7	1010.4	1023.1	1033.3	1035.9
40°	979.8	987.4	995.1	1002.7	1005.3
42.5°	954.2	961.9	964.4	969.6	969.6
45°	926.2	931.3	931.3	933.8	931.3
47.5°	895.6	898.1	893.0	893.0	890.5
50°	862.4	862.4	852.2	849.6	847.1
52.5°	824.1	821.6	808.8	803.7	798.6
55°	783.3	778.2	765.4	755.2	750.1
57.5°	742.5	734.8	714.4	704.2	701.6
60°	696.5	686.3	660.8	653.2	653.2
62.5°	645.5	632.8	607.2	602.1	604.7
65°	589.4	576.6	548.6	551.1	548.6
67.5°	533.3	517.9	492.4	497.5	500.1
70°	474.6	459.3	433.7	441.4	441.4
72.5°	410.8	392.9	372.5	387.8	390.4
75°	341.9	326.6	313.8	329.1	331.7
77.5°	273.0	262.8	252.6	270.5	273.0
80°	209.2	196.5	191.4	206.7	206.7
82.5°	137.8	135.2	137.8	145.4	142.9
85°	81.6	79.1	81.6	81.6	76.5
87.5°	35.7	35.7	33.2	28.1	30.6
90°	2.6	17.9	25.5	30.6	30.6
92.5°	12.8	30.6	43.4	48.5	48.5
95°	23.0	38.3	51.0	61.2	63.8
97.5°	35.7	43.4	58.7	68.9	71.4
100°	48.5	48.5	66.3	74.0	76.5
102.5°	61.2	61.2	71.4	81.6	84.2
105°	74.0	74.0	76.5	89.3	91.9
107.5°	89.3	86.7	81.6	91.9	97.0
110°	99.5	99.5	94.4	97.0	99.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.3	112.3	104.6	102.1	104.6
115°	127.6	125.0	117.4	112.3	112.3
117.5°	140.3	137.8	132.7	127.6	125.0
120°	153.1	150.5	145.4	142.9	140.3
122.5°	165.8	165.8	160.7	158.2	155.6
125°	178.6	176.0	173.5	173.5	170.9
127.5°	191.4	188.8	191.4	191.4	191.4
130°	204.1	199.0	204.1	206.7	209.2
132.5°	216.9	211.8	216.9	224.5	227.1
135°	224.5	222.0	229.6	239.8	242.4
137.5°	234.7	232.2	239.8	252.6	255.1
140°	242.4	242.4	250.0	262.8	267.9
142.5°	250.0	247.5	257.7	267.9	275.6
145°	255.1	252.6	260.2	273.0	278.1
147.5°	257.7	257.7	260.2	278.1	283.2
150°	260.2	260.2	262.8	278.1	283.2
152.5°	262.8	262.8	265.4	273.0	280.7
155°	265.4	265.4	267.9	270.5	273.0
157.5°	265.4	265.4	267.9	270.5	273.0
160°	267.9	267.9	267.9	270.5	270.5
162.5°	267.9	267.9	267.9	270.5	270.5
165°	267.9	267.9	267.9	270.5	270.5
167.5°	267.9	267.9	267.9	267.9	267.9
170°	267.9	267.9	267.9	267.9	267.9
172.5°	267.9	267.9	267.9	267.9	267.9
175°	267.9	267.9	267.9	267.9	267.9
177.5°	267.9	267.9	267.9	267.9	267.9
180°	267.9	267.9	267.9	267.9	267.9

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