

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: P213075

Luminaire Tested: **DSI-WD-50L835-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35733)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WD-50L835-1D-UNV-4-STD-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH DUST COVER, LIGHT LEVEL 4.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5104.6 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.47 / 1.55
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

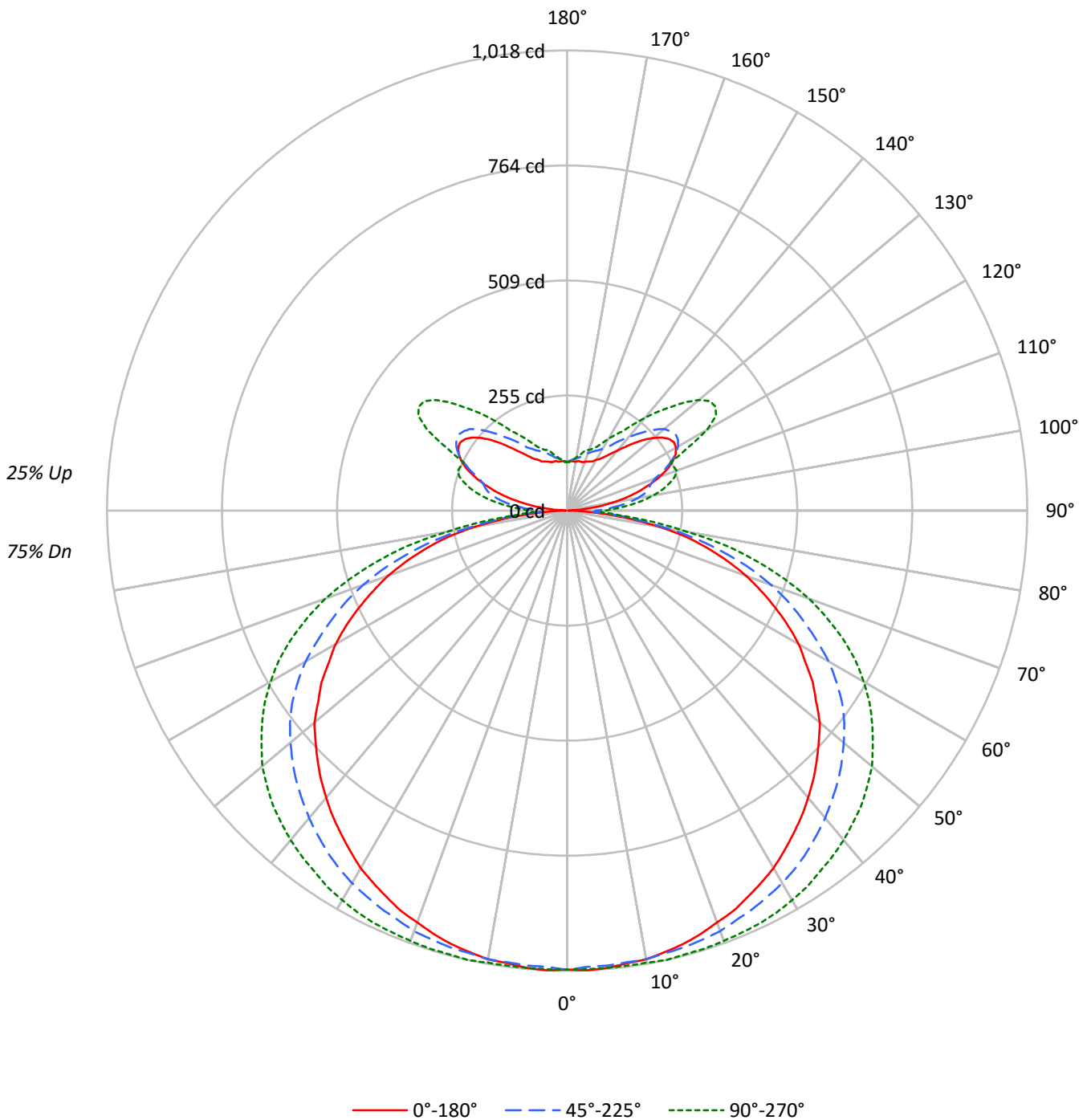
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	102	97	92	88	97	92	88	84	83	80	77	75	73	70	68	66	64	60
2	92	83	76	70	87	79	73	67	72	67	62	65	61	57	58	55	52	49
3	83	72	64	57	79	69	61	55	62	56	51	56	51	47	51	47	43	40
4	76	63	55	48	71	60	52	46	55	48	43	50	44	39	45	40	36	33
5	69	56	47	40	65	54	45	39	49	42	36	44	38	34	40	35	31	28
6	64	50	41	35	60	48	40	34	44	37	31	40	34	29	36	31	27	24
7	59	45	36	30	56	43	35	29	39	32	27	36	30	26	32	27	24	21
8	54	41	32	27	52	39	31	26	36	29	24	33	27	23	30	25	21	19
9	51	37	29	24	48	36	28	23	33	26	22	30	24	20	27	22	19	17
10	47	34	26	21	45	33	26	21	30	24	19	28	22	18	25	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3422	3422	3422
5°	3435	3418	3435
10°	3448	3448	3475
15°	3462	3489	3543
20°	3476	3550	3632
25°	3510	3614	3747
30°	3554	3703	3872
35°	3589	3799	4009
40°	3647	3906	4186
45°	3720	4037	4389
50°	3825	4186	4614
55°	3897	4362	4841
60°	3989	4505	5107
65°	4048	4597	5371
70°	4148	4726	5606
75°	4186	4684	5680
80°	4011	4308	5249
85°	2958	3847	4438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	1.9
10°-20°	283.8	5.6
20°-30°	450.2	8.8
30°-40°	579.2	11.3
40°-50°	656.4	12.9
50°-60°	663.7	13.0
60°-70°	579.9	11.4
70°-80°	390.4	7.6
80°-90°	124.7	2.4
90°-100°	112.8	2.2
100°-110°	201.0	3.9
110°-120°	256.1	5.0
120°-130°	279.3	5.5
130°-140°	201.2	3.9
140°-150°	116.7	2.3
150°-160°	66.3	1.3
160°-170°	35.4	0.7
170°-180°	10.8	0.2
0°-30°	830.7	16.3
0°-40°	1409.9	27.6
0°-60°	2730.0	53.5
0°-90°	3825.0	74.9
90°-120°	569.9	11.2
90°-150°	1167.1	22.9
90°-180°	1280.0	25.1
0°-180°	5104.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1016	1016	1010	1016	1016	97
15°	992	995	1000	1013	1016	280
25°	944	954	972	998	1008	436
35°	873	888	924	959	975	547
45°	781	804	847	901	921	603
55°	663	691	742	796	824	592
65°	508	541	577	643	674	503
75°	322	342	360	413	436	337
85°	76	82	100	112	115	90
90°	3	38	64	82	84	6
95°	38	79	112	133	138	45
105°	163	161	186	222	235	171
115°	258	248	253	258	253	252
125°	276	276	293	362	401	244
135°	212	224	248	296	324	165
145°	145	163	181	204	214	93
155°	120	130	145	150	156	56
165°	112	117	125	130	133	32
175°	110	110	112	112	112	10
180°	107	107	107	107	107	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.5	1015.5	1015.5	1015.5	1015.5
2.5°	1018.0	1015.5	1010.4	1015.5	1015.5
5°	1015.5	1015.5	1010.4	1015.5	1015.5
7.5°	1010.4	1012.9	1007.8	1015.5	1015.5
10°	1007.8	1007.8	1007.8	1015.5	1015.5
12.5°	1000.2	1002.7	1002.7	1012.9	1018.0
15°	992.5	995.1	1000.2	1012.9	1015.5
17.5°	982.3	987.4	995.1	1010.4	1015.5
20°	969.5	977.2	990.0	1007.8	1012.9
22.5°	959.3	967.0	979.8	1002.7	1010.4
25°	944.0	954.2	972.1	997.6	1007.8
27.5°	928.7	938.9	961.9	990.0	1002.7
30°	913.4	926.2	951.7	982.3	995.1
32.5°	893.0	908.3	938.9	972.1	987.4
35°	872.6	887.9	923.6	959.3	974.7
37.5°	852.2	870.0	905.8	946.6	964.4
40°	829.2	847.1	887.9	933.8	951.7
42.5°	806.3	826.7	867.5	916.0	936.4
45°	780.7	803.7	847.1	900.7	921.1
47.5°	755.2	778.2	824.1	880.2	900.7
50°	729.7	752.7	798.6	854.7	880.2
52.5°	694.0	722.1	773.1	826.7	852.2
55°	663.4	691.4	742.5	796.1	824.1
57.5°	625.1	658.3	706.7	762.9	793.5
60°	591.9	620.0	668.5	727.2	757.8
62.5°	551.1	581.7	622.6	686.3	719.5
65°	507.7	540.9	576.6	643.0	673.6
67.5°	464.4	495.0	530.7	591.9	622.6
70°	421.0	449.1	479.7	540.9	569.0
72.5°	372.5	398.0	423.5	479.7	505.2
75°	321.5	341.9	359.8	413.3	436.3
77.5°	270.5	280.7	296.0	341.9	362.3
80°	206.7	214.3	222.0	260.2	270.5
82.5°	140.3	145.4	155.6	178.6	188.8
85°	76.5	81.6	99.5	112.3	114.8
87.5°	25.5	40.8	58.7	68.9	74.0
90°	2.6	38.3	63.8	81.6	84.2
92.5°	12.8	58.7	86.7	102.1	107.2
95°	38.3	79.1	112.3	132.7	137.8
97.5°	71.4	99.5	137.8	160.7	168.4
100°	102.1	117.4	158.2	186.3	193.9
102.5°	135.2	135.2	176.0	206.7	216.9
105°	163.3	160.7	186.3	222.0	234.7
107.5°	191.4	183.7	193.9	234.7	250.0
110°	216.9	206.7	206.7	237.3	257.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	227.1	232.2	237.3	255.1
115°	257.7	247.5	252.6	257.7	252.6
117.5°	270.5	262.8	270.5	308.7	301.1
120°	278.1	273.0	283.2	341.9	357.2
122.5°	280.7	278.1	290.9	357.2	390.4
125°	275.6	275.6	293.4	362.3	400.6
127.5°	265.4	270.5	288.3	354.7	398.0
130°	250.0	257.7	280.7	339.3	380.2
132.5°	232.2	242.4	265.4	318.9	354.7
135°	211.8	224.5	247.5	296.0	324.0
137.5°	191.4	206.7	229.6	270.5	296.0
140°	173.5	191.4	211.8	247.5	267.9
142.5°	158.2	176.0	196.5	224.5	239.8
145°	145.4	163.3	181.2	204.1	214.3
147.5°	135.2	153.1	165.8	191.4	199.0
150°	130.1	142.9	158.2	176.0	183.7
152.5°	122.5	135.2	150.5	160.7	168.4
155°	119.9	130.1	145.4	150.5	155.6
157.5°	117.4	125.0	140.3	145.4	148.0
160°	114.8	122.5	135.2	142.9	142.9
162.5°	112.3	119.9	130.1	137.8	140.3
165°	112.3	117.4	125.0	130.1	132.7
167.5°	112.3	114.8	119.9	125.0	125.0
170°	109.7	112.3	117.4	119.9	119.9
172.5°	109.7	112.3	114.8	117.4	114.8
175°	109.7	109.7	112.3	112.3	112.3
177.5°	109.7	109.7	109.7	109.7	107.2
180°	107.2	107.2	107.2	107.2	107.2

(END OF REPORT)