

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: P183546

Luminaire Tested: **E2-WS-1L35-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26966)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-WS-1L35-1D-UNV-4-STD-DM5
Description: CORELITE ELEMENT SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.
Light Source: (336)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2823.8 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.37 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: General Diffuse

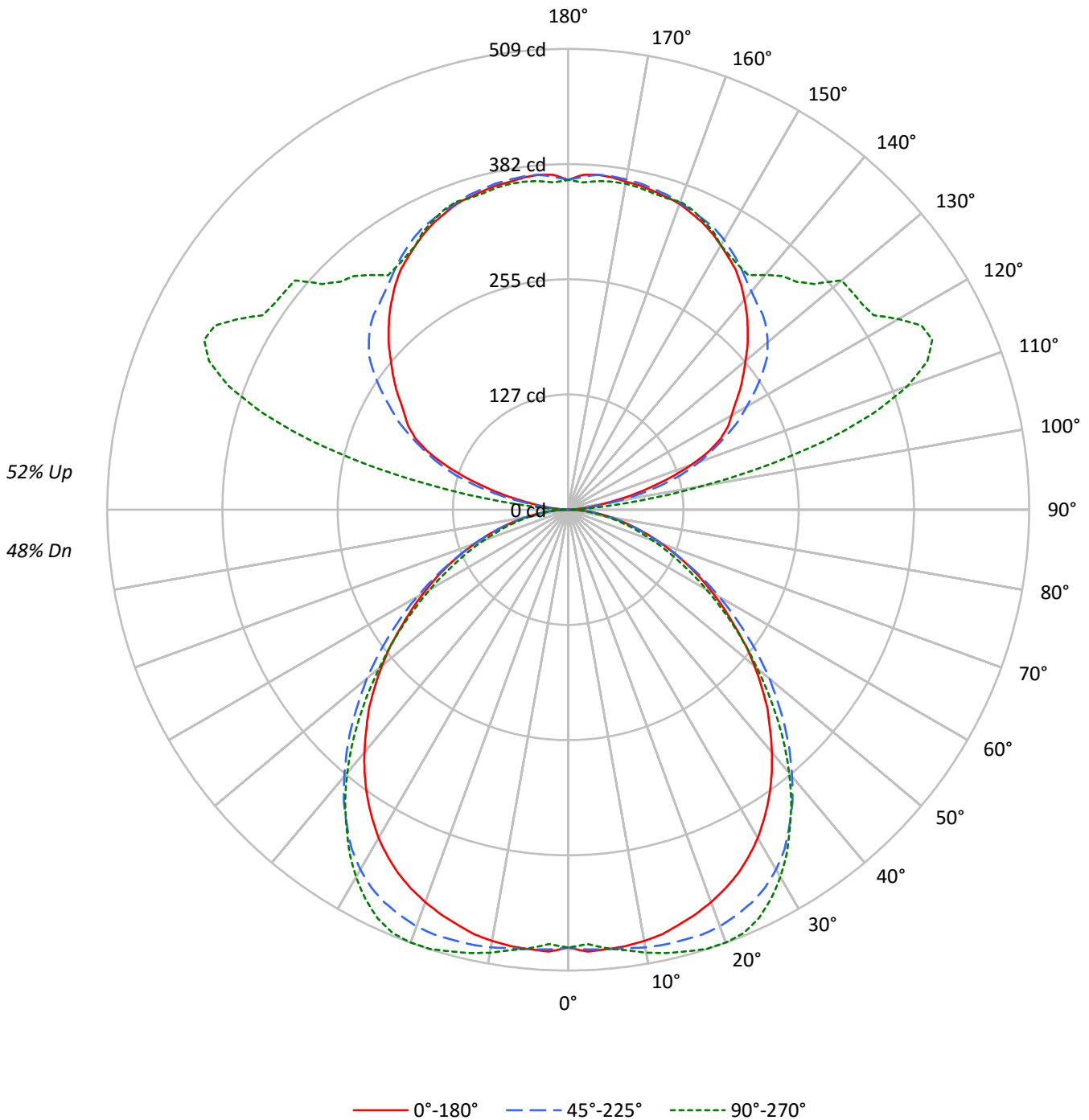
Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48				
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	47	46	41				
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35				
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	33	29				
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25				
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22				
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19				
7	58	46	38	32	53	43	36	30	36	31	27	31	26	23	25	22	20	17				
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15				
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	21	18	16	14				
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3875	3875	3875
5°	3899	3775	3728
10°	3894	3708	3680
15°	3873	3655	3645
20°	3851	3605	3606
25°	3816	3521	3495
30°	3747	3394	3280
35°	3635	3194	3006
40°	3491	2947	2708
45°	3331	2673	2377
50°	3129	2381	2040
55°	2898	2070	1732
60°	2685	1764	1439
65°	2472	1463	1166
70°	2221	1175	922
75°	1956	894	691
80°	1641	615	460
85°	1242	329	221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	1.6
10°-20°	138.6	4.9
20°-30°	217.6	7.7
30°-40°	258.8	9.2
40°-50°	252.4	8.9
50°-60°	207.9	7.4
60°-70°	144.6	5.1
70°-80°	79.5	2.8
80°-90°	23.7	0.8
90°-100°	31.9	1.1
100°-110°	163.6	5.8
110°-120°	251.1	8.9
120°-130°	262.2	9.3
130°-140°	239.9	8.5
140°-150°	205.0	7.3
150°-160°	162.3	5.7
160°-170°	103.1	3.7
170°-180°	35.2	1.2
0°-30°	402.7	14.3
0°-40°	661.5	23.4
0°-60°	1121.7	39.7
0°-90°	1369.5	48.5
90°-120°	446.6	15.8
90°-150°	1153.7	40.9
90°-180°	1454.0	51.5
0°-180°	2823.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	487	483	487	486	486	46
15°	474	476	492	503	505	134
25°	444	451	479	493	498	204
35°	387	396	426	428	427	242
45°	311	323	338	331	326	239
55°	225	235	240	230	222	202
65°	147	151	149	141	135	145
75°	77	79	76	71	69	82
85°	22	24	21	19	18	23
90°	0	1	1	1	1	2
95°	12	13	15	33	37	17
105°	92	92	109	239	293	98
115°	186	183	192	336	444	180
125°	232	246	261	350	396	207
135°	280	285	304	332	356	216
145°	323	324	330	326	329	202
155°	350	349	354	354	352	161
165°	364	364	367	363	362	103
175°	371	368	371	369	364	35
180°	364	364	364	364	364	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	483.7	483.7	483.7	483.7	483.7
2.5°	488.5	482.6	486.1	484.9	480.2
5°	487.3	482.6	487.3	486.1	486.1
7.5°	486.1	481.4	488.5	490.8	490.8
10°	483.7	480.2	490.8	494.4	496.8
12.5°	480.2	477.8	492.0	499.1	501.5
15°	474.3	475.5	492.0	502.7	505.0
17.5°	468.4	471.9	492.0	503.8	508.6
20°	461.3	466.0	489.7	503.8	508.6
22.5°	453.0	458.9	484.9	500.3	506.2
25°	443.5	450.6	479.0	493.2	497.9
27.5°	431.7	440.0	470.7	482.6	484.9
30°	418.7	427.0	458.9	467.2	468.4
32.5°	403.3	414.0	444.7	449.4	449.4
35°	386.8	396.2	425.8	428.2	427.0
37.5°	369.0	379.7	406.9	405.7	404.5
40°	350.1	360.7	384.4	382.0	379.7
42.5°	330.0	341.8	361.9	357.2	353.6
45°	311.1	322.9	338.3	331.2	326.4
47.5°	289.8	301.6	313.4	306.3	299.2
50°	268.5	279.1	289.8	277.9	272.0
52.5°	247.2	257.8	264.9	254.3	247.2
55°	224.7	235.4	240.1	229.5	222.4
57.5°	204.6	212.9	216.4	205.8	198.7
60°	184.5	191.6	192.8	183.3	176.2
62.5°	165.6	171.5	170.3	160.9	154.9
65°	146.7	151.4	149.0	140.7	134.8
67.5°	127.7	131.3	128.9	121.8	117.1
70°	110.0	113.5	110.0	102.9	99.4
72.5°	93.4	95.8	92.3	86.3	82.8
75°	76.9	79.2	75.7	71.0	68.6
77.5°	61.5	62.7	60.3	56.8	54.4
80°	47.3	48.5	46.1	43.8	41.4
82.5°	34.3	35.5	33.1	31.9	29.6
85°	22.5	23.7	21.3	18.9	17.7
87.5°	10.6	11.8	9.5	8.3	7.1
90°	0.0	1.2	1.2	1.2	1.2
92.5°	3.5	4.7	4.7	7.1	7.1
95°	11.8	13.0	15.4	33.1	36.7
97.5°	26.0	27.2	33.1	78.1	86.3
100°	43.8	46.1	55.6	132.5	150.2
102.5°	67.4	68.6	82.8	189.2	222.4
105°	92.3	92.3	108.8	238.9	293.3
107.5°	118.3	114.7	133.7	279.1	352.5
110°	144.3	139.6	153.8	306.3	398.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.9	162.0	172.7	322.9	429.3
115°	185.7	183.3	191.6	335.9	443.5
117.5°	198.7	202.2	211.7	345.4	440.0
120°	208.2	220.0	227.1	353.6	421.1
122.5°	218.8	235.4	244.8	351.3	399.8
125°	231.8	246.0	261.4	350.1	396.2
127.5°	243.6	253.1	276.8	351.3	395.0
130°	255.5	263.8	287.4	343.0	393.9
132.5°	268.5	274.4	296.9	331.2	369.0
135°	280.3	285.0	304.0	332.4	356.0
137.5°	292.1	294.5	308.7	333.5	350.1
140°	302.8	304.0	314.6	325.3	338.3
142.5°	313.4	314.6	321.7	322.9	326.4
145°	322.9	324.1	330.0	326.4	328.8
147.5°	330.0	331.2	337.1	332.4	332.4
150°	337.1	337.1	344.2	339.4	337.1
152.5°	344.2	343.0	350.1	346.5	346.5
155°	350.1	348.9	353.6	353.6	352.5
157.5°	354.8	353.6	357.2	359.6	358.4
160°	359.6	358.4	360.7	360.7	361.9
162.5°	361.9	361.9	364.3	360.7	360.7
165°	364.3	364.3	366.7	363.1	361.9
167.5°	366.7	366.7	369.0	365.5	364.3
170°	367.8	367.8	370.2	366.7	365.5
172.5°	370.2	369.0	371.4	367.8	365.5
175°	371.4	367.8	371.4	369.0	364.3
177.5°	370.2	366.7	367.8	364.3	361.9
180°	364.3	364.3	364.3	364.3	364.3

(END OF REPORT)