

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: P183743

Luminaire Tested: **I2-WS-3L35-1D-UNV-4-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26978)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WS-3L35-1D-UNV-4-STD
Description: CORELITE IRIDIUM 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: 4911.9 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.69 / 1.63
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: General Diffuse

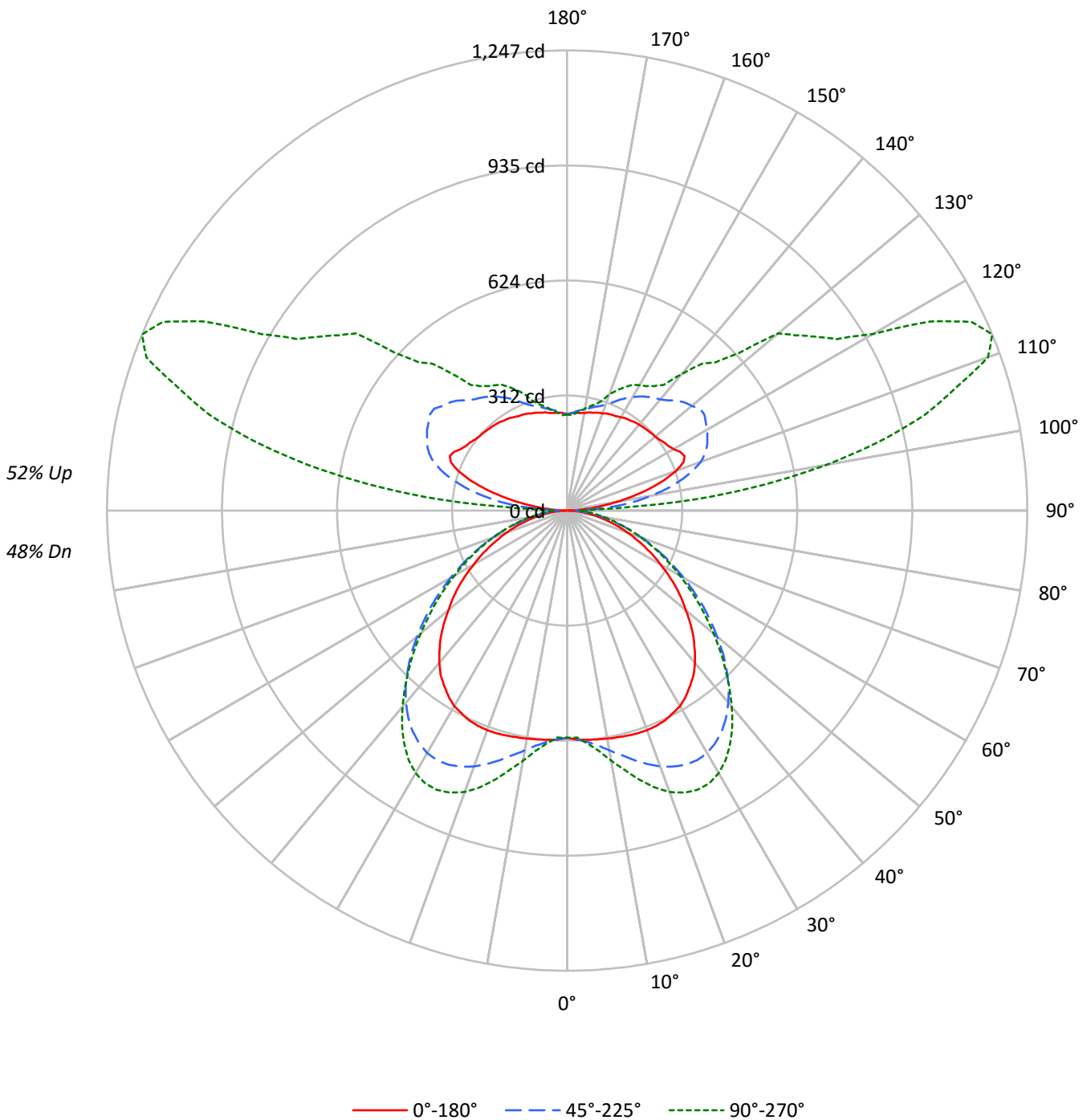
Input Watts (W): 46.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	85	89	85	82	79	72	69	67	59	57	56	47	46	45	40
2	88	81	75	69	81	74	69	64	63	59	55	52	49	46	42	40	38	33
3	80	71	63	57	74	65	59	54	55	50	46	45	42	39	37	34	32	28
4	73	62	54	48	67	58	51	45	49	43	39	40	36	33	33	30	27	24
5	67	56	47	41	62	51	44	39	43	38	34	36	32	29	29	26	24	20
6	62	50	41	36	57	46	39	33	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	41	34	29	35	30	25	29	25	22	24	21	18	16
8	53	40	33	27	48	38	31	26	32	26	22	27	22	19	22	19	16	14
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	20	17	15	12
10	46	34	26	22	42	31	25	20	27	22	18	23	18	15	19	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4931	4931	4931
5°	4987	4875	4856
10°	5051	4985	5098
15°	5155	5200	5449
20°	5286	5434	5755
25°	5399	5585	5863
30°	5474	5612	5753
35°	5453	5477	5425
40°	5375	5208	4950
45°	5184	4825	4412
50°	4889	4357	3881
55°	4627	3863	3374
60°	4252	3335	2881
65°	3898	2820	2425
70°	3524	2293	1981
75°	3042	1772	1540
80°	2515	1267	1112
85°	1839	801	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	1.2
10°-20°	197.9	4.0
20°-30°	342.5	7.0
30°-40°	437.9	8.9
40°-50°	444.6	9.1
50°-60°	377.0	7.7
60°-70°	269.9	5.5
70°-80°	153.4	3.1
80°-90°	57.3	1.2
90°-100°	182.8	3.7
100°-110°	507.9	10.3
110°-120°	587.2	12.0
120°-130°	466.3	9.5
130°-140°	335.7	6.8
140°-150°	230.1	4.7
150°-160°	152.2	3.1
160°-170°	82.5	1.7
170°-180°	25.9	0.5
0°-30°	601.2	12.2
0°-40°	1039.1	21.2
0°-60°	1860.7	37.9
0°-90°	2341.3	47.7
90°-120°	1277.9	26.0
90°-150°	2310.0	47.0
90°-180°	2571.0	52.3
0°-180°	4911.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	623	620	629	633	633	60
15°	631	648	700	742	755	179
25°	627	668	760	818	835	289
35°	580	635	730	769	770	363
45°	484	536	611	617	606	372
55°	359	398	448	443	433	320
65°	231	257	287	285	280	230
75°	120	134	150	153	153	128
85°	33	41	52	60	61	35
90°	2	15	24	31	31	5
95°	53	67	127	292	349	62
105°	233	241	320	793	1004	242
115°	351	362	419	857	1210	338
125°	322	374	454	691	821	288
135°	308	343	422	515	568	238
145°	298	323	376	402	412	188
155°	286	295	330	358	369	133
165°	274	279	291	298	298	78
175°	267	267	270	269	265	25
180°	261	261	261	261	261	



TEST NUMBER: P183743

CATALOG NUMBER: I2-WS-3L35-1D-UNV-4-STD

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	615.6	615.6	615.6	615.6	615.6	615.6	615.6	615.6	615.6	615.6
2.5°	621.5	619.5	615.6	615.6	617.6	623.4	621.5	619.5	617.6	615.6
5°	623.4	619.5	619.5	621.5	625.4	633.2	633.2	633.2	633.2	633.2
7.5°	625.4	623.4	623.4	629.3	635.2	648.9	650.9	654.8	656.8	656.8
10°	627.4	625.4	629.3	639.1	650.9	668.5	676.4	682.2	686.2	688.1
12.5°	629.3	629.3	635.2	648.9	666.6	690.1	701.9	711.7	717.5	719.5
15°	631.3	633.2	643.0	662.6	686.2	713.6	731.3	745.0	752.8	754.8
17.5°	633.2	635.2	648.9	672.4	701.9	737.1	756.7	774.4	784.2	786.2
20°	633.2	637.2	654.8	684.2	719.5	756.7	780.3	797.9	807.7	811.6
22.5°	631.3	635.2	656.8	692.1	731.3	770.5	796.0	813.6	825.4	827.3
25°	627.4	633.2	658.7	696.0	739.1	780.3	805.8	821.4	831.2	835.2
27.5°	619.5	627.4	654.8	696.0	743.0	782.2	807.7	821.4	829.3	833.2
30°	611.7	619.5	648.9	692.1	739.1	778.3	799.9	813.6	819.5	821.4
32.5°	597.9	607.8	637.2	682.2	729.3	764.6	786.2	796.0	799.9	799.9
35°	580.3	590.1	623.4	668.5	713.6	746.9	764.6	770.5	770.5	770.5
37.5°	562.7	572.5	603.8	648.9	692.1	723.4	737.1	739.1	737.1	735.2
40°	539.1	548.9	580.3	625.4	666.6	692.1	701.9	699.9	696.0	694.0
42.5°	511.7	521.5	554.8	596.0	637.2	658.7	662.6	658.7	652.8	650.9
45°	484.2	494.0	525.4	566.6	601.9	619.5	621.5	615.6	607.8	605.8
47.5°	452.9	462.7	492.1	533.3	564.6	580.3	578.3	572.5	564.6	562.7
50°	419.5	431.3	458.8	498.0	523.5	537.2	535.2	527.4	519.5	517.6
52.5°	390.1	399.9	425.4	460.7	484.2	494.0	492.1	484.2	476.4	474.4
55°	358.8	366.6	390.1	421.5	443.1	452.9	449.0	441.1	433.3	433.3
57.5°	325.4	333.3	354.8	382.3	401.9	409.7	405.8	399.9	394.1	392.1
60°	292.1	301.9	321.5	345.0	362.7	366.6	364.7	358.8	354.8	352.9
62.5°	262.7	270.5	288.2	307.8	321.5	329.4	325.4	321.5	315.6	315.6
65°	231.3	239.2	252.9	270.5	284.3	290.2	288.2	284.3	280.3	280.3
67.5°	201.9	207.8	221.5	237.2	247.0	252.9	250.9	249.0	245.1	245.1
70°	174.5	178.4	190.2	201.9	211.7	217.6	217.6	215.7	213.7	213.7
72.5°	147.0	151.0	160.8	170.6	178.4	184.3	186.2	182.3	182.3	182.3
75°	119.6	125.5	131.4	141.2	147.0	152.9	154.9	152.9	152.9	152.9
77.5°	96.1	100.0	105.9	113.7	117.6	123.5	125.5	125.5	125.5	125.5
80°	72.5	76.5	82.3	86.3	92.1	98.0	100.0	100.0	101.9	100.0
82.5°	52.9	54.9	58.8	64.7	68.6	74.5	78.4	78.4	80.4	80.4
85°	33.3	35.3	39.2	45.1	49.0	54.9	58.8	60.8	60.8	60.8
87.5°	13.7	19.6	23.5	29.4	33.3	39.2	43.1	45.1	45.1	45.1
90°	2.0	9.8	13.7	17.6	21.6	25.5	29.4	31.4	31.4	31.4
92.5°	21.6	27.4	29.4	33.3	43.1	60.8	78.4	82.3	86.3	86.3
95°	52.9	62.7	66.7	68.6	92.1	162.7	249.0	305.8	335.2	349.0
97.5°	94.1	103.9	109.8	105.9	135.3	229.4	370.5	464.6	521.5	539.1
100°	137.2	149.0	154.9	145.1	178.4	286.2	480.3	601.9	682.2	713.6
102.5°	184.3	196.0	201.9	184.3	215.7	339.2	570.5	729.3	827.3	868.5
105°	233.3	241.1	247.0	223.5	250.9	388.2	643.0	843.0	958.7	1003.8
107.5°	276.4	282.3	286.2	262.7	282.3	429.3	676.4	933.2	1070.4	1103.8
110°	313.7	319.6	319.6	300.0	311.7	458.8	676.4	990.0	1152.8	1213.5



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CATALOG NUMBER: I2-WS-3L35-1D-UNV-4-STD

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	341.1	349.0	345.0	333.3	335.2	474.4	670.5	986.1	1188.1	1246.9
115°	350.9	364.7	362.7	360.7	362.7	474.4	670.5	919.5	1141.0	1209.6
117.5°	345.0	368.6	380.3	378.4	384.3	472.5	662.6	831.2	1027.3	1109.6
120°	333.3	362.7	392.1	394.1	403.9	472.5	639.1	778.3	903.8	956.7
122.5°	325.4	341.1	388.2	398.0	419.5	470.5	615.6	741.1	837.1	864.6
125°	321.5	327.4	366.6	396.0	425.4	482.3	597.9	721.5	799.9	821.4
127.5°	315.6	321.5	349.0	384.3	423.5	484.2	564.6	694.0	756.7	780.3
130°	311.7	319.6	341.1	374.5	413.7	468.6	537.2	637.2	725.4	746.9
132.5°	309.8	317.6	339.2	372.5	409.7	456.8	501.9	554.8	621.5	631.3
135°	307.8	315.6	335.2	366.6	401.9	441.1	488.2	523.5	556.8	568.5
137.5°	305.8	313.7	329.4	360.7	392.1	417.6	458.8	499.9	529.3	539.1
140°	303.9	309.8	327.4	354.8	384.3	401.9	423.5	447.0	468.6	482.3
142.5°	301.9	307.8	321.5	347.0	376.4	394.1	405.8	417.6	425.4	429.3
145°	298.0	303.9	317.6	339.2	366.6	386.2	396.0	403.9	409.7	411.7
147.5°	296.0	298.0	309.8	329.4	356.8	376.4	388.2	394.1	398.0	399.9
150°	292.1	294.1	303.9	321.5	345.0	364.7	378.4	388.2	390.1	392.1
152.5°	288.2	290.2	298.0	311.7	333.3	352.9	364.7	376.4	382.3	384.3
155°	286.2	286.2	292.1	303.9	321.5	339.2	350.9	360.7	366.6	368.6
157.5°	284.3	284.3	288.2	298.0	309.8	323.5	337.2	345.0	350.9	352.9
160°	280.3	280.3	284.3	292.1	300.0	309.8	319.6	329.4	335.2	335.2
162.5°	278.4	278.4	280.3	286.2	294.1	300.0	303.9	307.8	311.7	311.7
165°	274.5	276.4	278.4	282.3	288.2	294.1	296.0	298.0	298.0	298.0
167.5°	272.5	274.5	276.4	278.4	282.3	286.2	288.2	290.2	290.2	290.2
170°	268.6	270.5	272.5	276.4	276.4	280.3	280.3	282.3	282.3	280.3
172.5°	266.6	268.6	270.5	272.5	274.5	274.5	274.5	274.5	272.5	272.5
175°	266.6	266.6	266.6	268.6	268.6	270.5	270.5	268.6	266.6	264.7
177.5°	264.7	264.7	264.7	264.7	262.7	264.7	262.7	262.7	260.7	258.8
180°	260.7	260.7	260.7	260.7	260.7	260.7	260.7	260.7	260.7	260.7

(END OF REPORT)