

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: P183723

Luminaire Tested: **I2-WS-3L30-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27048)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WS-3L30-1D-UNV-4-STD-DM8
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 70% UP / 30% DOWN.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

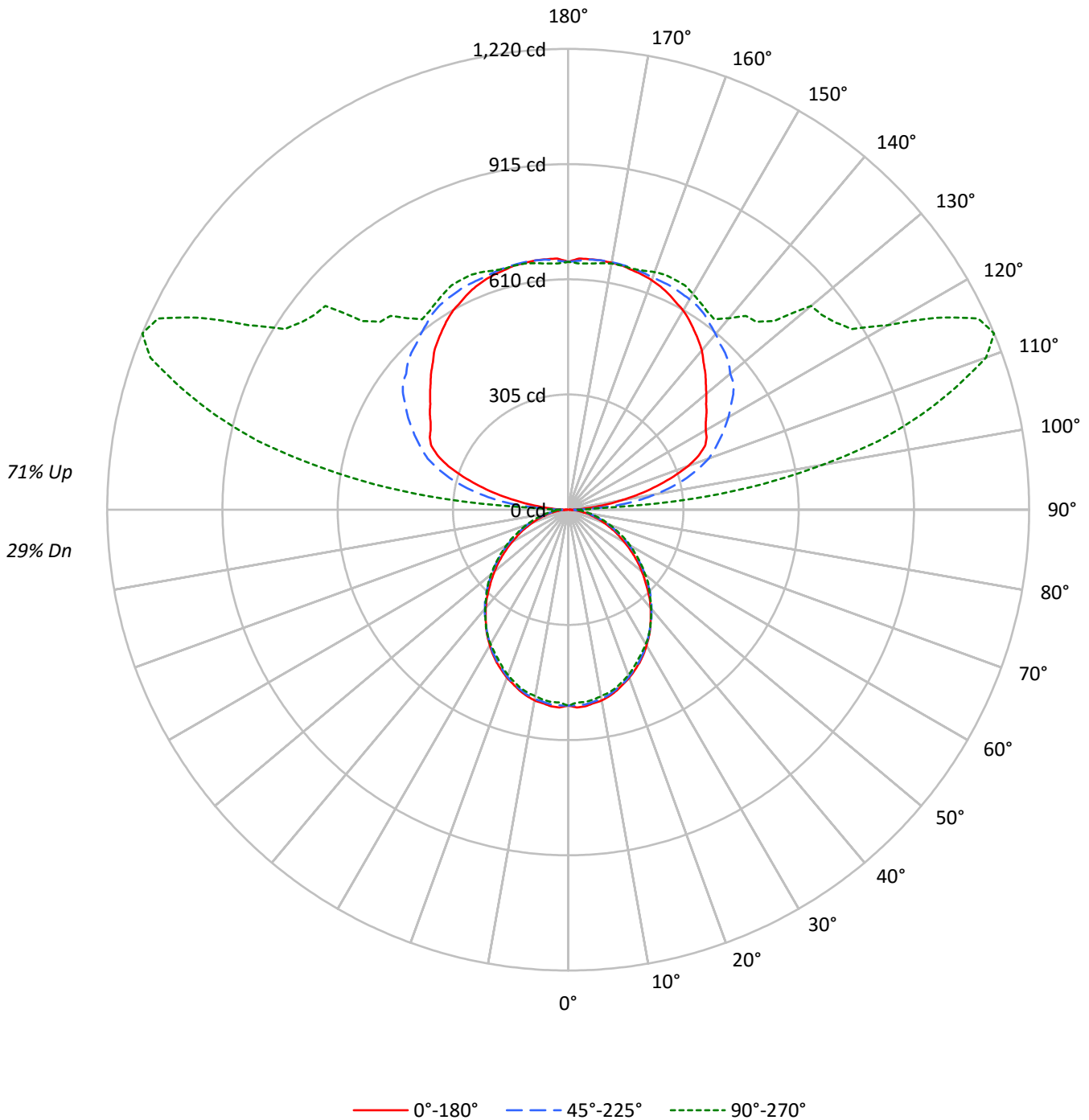
Lumens per Lamp: N/A
Luminaire Lumens: 4557.1 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	93	89	85	82	83	80	77	74	63	60	59	47	46	44	32	32	31	24
2	85	78	72	67	76	70	65	60	55	51	48	41	39	37	29	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	34	31	25	24	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	23	21	19	15
5	65	53	46	40	58	48	41	36	38	33	30	29	26	23	20	18	17	13
6	59	48	40	34	53	43	36	32	34	29	26	26	23	20	18	16	15	11
7	55	43	35	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4153	4153	4153
5°	4179	4009	3919
10°	4130	3847	3715
15°	4049	3656	3525
20°	3951	3463	3302
25°	3846	3264	3071
30°	3712	3054	2878
35°	3561	2835	2668
40°	3384	2631	2434
45°	3169	2414	2211
50°	2966	2169	1994
55°	2748	1935	1762
60°	2498	1690	1540
65°	2289	1435	1304
70°	2018	1198	1101
75°	1775	936	873
80°	1440	691	650
85°	1044	466	471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.1
10°-20°	138.4	3.0
20°-30°	203.6	4.5
30°-40°	236.4	5.2
40°-50°	233.1	5.1
50°-60°	198.8	4.4
60°-70°	144.9	3.2
70°-80°	84.6	1.9
80°-90°	33.6	0.7
90°-100°	179.2	3.9
100°-110°	505.6	11.1
110°-120°	608.2	13.3
120°-130°	540.5	11.9
130°-140°	463.9	10.2
140°-150°	387.9	8.5
150°-160°	299.6	6.6
160°-170°	186.7	4.1
170°-180°	63.2	1.4
0°-30°	390.9	8.6
0°-40°	627.3	13.8
0°-60°	1059.3	23.2
0°-90°	1322.4	29.0
90°-120°	1293.0	28.4
90°-150°	2685.2	58.9
90°-180°	3235.0	71.0
0°-180°	4557.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	518	518	518	518	518	
5°	522	516	518	515	511	49
15°	496	492	492	491	488	140
25°	447	443	444	440	437	206
35°	379	375	378	381	379	237
45°	296	298	306	304	304	229
55°	213	218	224	226	226	190
65°	136	142	146	150	151	134
75°	70	75	79	84	87	74
85°	19	25	30	35	38	19
90°	2	10	16	20	21	5
95°	57	68	127	285	332	65
105°	243	250	325	775	965	256
115°	400	400	443	857	1197	388
125°	447	480	534	748	864	400
135°	513	535	587	654	703	396
145°	581	593	630	637	641	364
155°	630	629	651	665	671	291
165°	656	656	662	659	660	186
175°	666	664	665	660	654	63
180°	656	656	656	656	656	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	518.5	518.5	518.5	518.5	518.5	518.5	518.5	518.5	518.5	518.5
2.5°	524.2	520.4	518.5	516.6	516.6	520.4	518.5	516.6	512.9	511.0
5°	522.3	518.5	516.6	514.7	516.6	518.5	516.6	514.7	512.9	511.0
7.5°	516.6	514.7	511.0	511.0	511.0	514.7	511.0	511.0	509.1	507.2
10°	512.9	509.1	507.2	507.2	507.2	511.0	507.2	505.3	503.4	501.5
12.5°	505.3	501.5	499.7	499.7	499.7	503.4	499.7	497.8	495.9	495.9
15°	495.9	494.0	492.1	490.2	490.2	494.0	492.1	490.2	488.3	488.3
17.5°	484.6	482.7	480.8	480.8	480.8	484.6	480.8	478.9	477.0	477.0
20°	473.3	471.4	469.5	469.5	469.5	471.4	469.5	467.6	465.7	465.7
22.5°	460.1	458.2	456.3	456.3	456.3	458.2	456.3	452.5	452.5	452.5
25°	446.9	445.0	443.1	441.2	443.1	445.0	441.2	439.3	437.4	437.4
27.5°	431.8	429.9	428.0	426.1	428.0	429.9	428.0	424.2	424.2	424.2
30°	414.8	412.9	411.0	411.0	412.9	412.9	411.0	411.0	411.0	411.0
32.5°	397.8	396.0	394.1	394.1	396.0	396.0	397.8	397.8	396.0	396.0
35°	379.0	377.1	375.2	375.2	377.1	379.0	380.9	380.9	380.9	379.0
37.5°	358.2	358.2	356.4	356.4	360.1	363.9	363.9	362.0	362.0	360.1
40°	339.4	337.5	337.5	337.5	341.3	345.0	345.0	343.2	341.3	341.3
42.5°	318.7	318.7	318.7	318.7	324.3	326.2	324.3	324.3	322.4	322.4
45°	296.0	297.9	297.9	297.9	305.5	305.5	305.5	303.6	305.5	303.6
47.5°	275.3	277.2	277.2	280.9	284.7	284.7	284.7	286.6	286.6	286.6
50°	254.5	256.4	256.4	262.1	264.0	264.0	265.9	265.9	265.9	265.9
52.5°	233.8	233.8	235.7	241.3	243.2	245.1	245.1	247.0	247.0	247.0
55°	213.1	214.9	216.8	222.5	222.5	226.3	226.3	226.3	228.1	226.3
57.5°	192.3	194.2	196.1	199.9	203.6	205.5	205.5	207.4	207.4	207.4
60°	171.6	175.4	179.1	181.0	184.8	184.8	186.7	188.6	188.6	188.6
62.5°	152.7	156.5	160.3	162.2	164.0	165.9	167.8	169.7	171.6	171.6
65°	135.8	137.6	141.4	143.3	145.2	147.1	149.0	150.8	152.7	150.8
67.5°	116.9	120.7	124.4	126.3	128.2	130.1	132.0	133.9	133.9	133.9
70°	99.9	103.7	107.5	109.4	111.2	113.1	115.0	116.9	116.9	118.8
72.5°	84.8	88.6	90.5	92.4	94.3	96.2	98.0	99.9	101.8	101.8
75°	69.8	73.5	75.4	75.4	77.3	81.1	83.0	84.8	84.8	86.7
77.5°	54.7	58.5	60.3	62.2	64.1	66.0	67.9	69.8	71.6	71.6
80°	41.5	45.3	47.1	49.0	50.9	52.8	54.7	56.6	58.5	58.5
82.5°	28.3	33.9	33.9	35.8	37.7	41.5	43.4	45.3	47.1	47.1
85°	18.9	22.6	24.5	26.4	28.3	32.1	33.9	35.8	37.7	37.7
87.5°	7.5	13.2	15.1	17.0	20.7	22.6	24.5	26.4	28.3	28.3
90°	1.9	7.5	9.4	11.3	15.1	17.0	18.9	20.7	20.7	20.7
92.5°	24.5	28.3	28.3	32.1	39.6	60.3	75.4	79.2	77.3	71.6
95°	56.6	64.1	67.9	69.8	92.4	162.2	247.0	297.9	324.3	331.9
97.5°	98.0	107.5	113.1	109.4	139.5	231.9	365.8	456.3	505.3	518.5
100°	143.3	152.7	160.3	150.8	182.9	286.6	473.3	590.2	663.7	684.4
102.5°	194.2	203.6	209.3	192.3	224.4	339.4	563.8	712.7	805.1	840.9
105°	243.2	252.7	256.4	231.9	260.2	390.3	629.8	824.0	933.3	965.4
107.5°	292.3	297.9	297.9	273.4	292.3	431.8	667.5	912.6	1040.8	1074.7
110°	337.5	339.4	337.5	314.9	326.2	465.7	669.4	969.2	1123.8	1176.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	373.3	377.1	369.6	354.5	354.5	484.6	669.4	969.2	1159.6	1219.9
115°	399.7	409.2	401.6	394.1	390.3	495.9	680.7	916.4	1125.7	1197.3
117.5°	412.9	431.8	433.7	426.1	426.1	507.2	684.4	842.8	1031.4	1101.1
120°	420.5	443.1	463.8	456.3	460.1	518.5	673.1	799.5	925.8	976.7
122.5°	431.8	443.1	478.9	477.0	490.2	529.8	661.8	780.6	869.2	890.0
125°	446.9	448.8	477.0	490.2	511.0	556.2	659.9	776.8	844.7	863.6
127.5°	460.1	463.8	480.8	499.7	527.9	575.1	646.7	765.5	820.2	846.6
130°	477.0	480.8	494.0	514.7	539.3	580.7	637.3	729.7	814.5	839.1
132.5°	494.0	499.7	512.9	535.5	558.1	593.9	624.1	667.5	727.8	739.1
135°	512.9	518.5	529.8	552.5	575.1	599.6	635.4	659.9	690.1	703.3
137.5°	529.8	535.5	544.9	565.7	588.3	601.5	629.8	659.9	682.6	695.8
140°	550.6	554.3	563.8	580.7	603.4	610.9	622.2	635.4	652.4	661.8
142.5°	565.7	569.4	577.0	592.1	612.8	622.2	626.0	629.8	635.4	635.4
145°	580.7	582.6	590.2	601.5	624.1	635.4	635.4	637.3	641.1	641.1
147.5°	595.8	595.8	601.5	610.9	631.6	644.8	648.6	646.7	648.6	650.5
150°	609.0	607.1	610.9	620.3	637.3	648.6	656.2	658.0	658.0	659.9
152.5°	618.4	618.4	618.4	626.0	641.1	652.4	658.0	663.7	667.5	669.4
155°	629.8	627.9	627.9	631.6	644.8	658.0	661.8	665.6	669.4	671.2
157.5°	639.2	639.2	637.3	639.2	646.7	658.0	665.6	667.5	671.2	673.1
160°	646.7	644.8	644.8	644.8	650.5	658.0	661.8	665.6	669.4	669.4
162.5°	652.4	652.4	650.5	650.5	656.2	659.9	658.0	658.0	661.8	663.7
165°	656.2	658.0	656.2	656.2	659.9	663.7	661.8	658.0	658.0	659.9
167.5°	661.8	661.8	661.8	659.9	661.8	665.6	663.7	661.8	661.8	661.8
170°	663.7	663.7	663.7	663.7	663.7	667.5	663.7	661.8	661.8	661.8
172.5°	665.6	663.7	663.7	663.7	663.7	667.5	663.7	659.9	658.0	658.0
175°	665.6	665.6	663.7	663.7	663.7	665.6	661.8	659.9	656.2	654.3
177.5°	665.6	663.7	661.8	658.0	658.0	661.8	658.0	654.3	652.4	652.4
180°	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2	656.2

(END OF REPORT)