

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: P183753

Luminaire Tested: **I2-WS-3L30-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26979)
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-DM5
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 40% UP / 60% DOWN.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

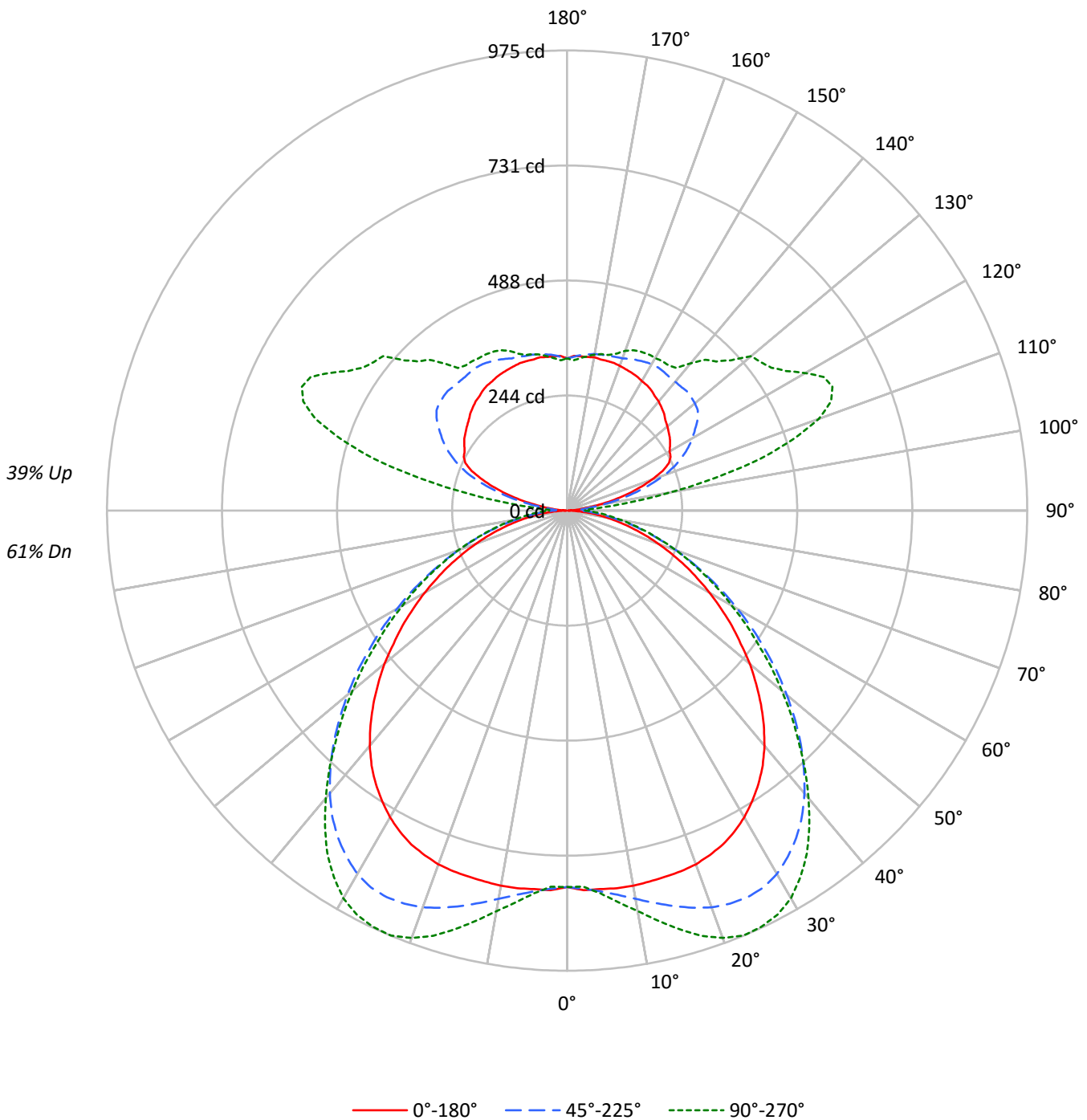
Lumens per Lamp: N/A
Luminaire Lumens: 4498.6 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Direct

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	56	51
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	49	47	43
3	83	73	66	60	77	69	62	56	60	55	51	52	48	45	45	42	40	36
4	76	65	56	50	71	61	53	48	53	48	43	47	42	38	40	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	36	31	39	33	28	34	29	26	30	26	23	20
8	55	42	34	29	51	40	33	27	35	29	25	31	26	23	27	23	20	18
9	51	38	31	26	48	36	29	24	32	27	22	29	24	20	25	21	18	16
10	48	35	28	23	45	33	27	22	30	24	20	26	22	18	23	19	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6388	6388	6388
5°	6441	6273	6246
10°	6498	6311	6383
15°	6559	6443	6628
20°	6657	6586	6831
25°	6717	6646	6830
30°	6716	6576	6642
35°	6643	6349	6239
40°	6486	5998	5675
45°	6217	5534	5053
50°	5889	4987	4453
55°	5495	4406	3847
60°	5077	3811	3295
65°	4640	3202	2772
70°	4150	2619	2272
75°	3596	2038	1766
80°	2942	1445	1299
85°	1977	916	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.7
10°-20°	244.9	5.4
20°-30°	409.0	9.1
30°-40°	511.2	11.4
40°-50°	514.6	11.4
50°-60°	435.6	9.7
60°-70°	311.0	6.9
70°-80°	176.8	3.9
80°-90°	65.5	1.5
90°-100°	56.9	1.3
100°-110°	229.1	5.1
110°-120°	342.5	7.6
120°-130°	332.8	7.4
130°-140°	281.2	6.3
140°-150°	220.5	4.9
150°-160°	161.4	3.6
160°-170°	96.0	2.1
170°-180°	31.5	0.7
0°-30°	731.8	16.3
0°-40°	1243.0	27.6
0°-60°	2193.2	48.8
0°-90°	2746.6	61.1
90°-120°	628.6	14.0
90°-150°	1463.1	32.5
90°-180°	1752.0	38.9
0°-180°	4498.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	805	800	810	813	814	77
15°	803	815	867	907	918	227
25°	781	816	904	958	973	359
35°	707	757	847	882	886	441
45°	581	630	700	703	694	447
55°	426	464	511	507	494	381
65°	275	298	326	327	320	273
75°	141	155	172	177	175	151
85°	36	45	59	69	72	40
90°	2	15	27	35	38	4
95°	19	21	32	60	70	26
105°	128	130	152	334	424	135
115°	238	239	269	471	620	229
125°	266	294	338	460	528	237
135°	290	313	358	410	447	224
145°	311	329	358	370	375	195
155°	322	331	352	367	371	149
165°	328	334	339	341	341	93
175°	328	328	331	329	324	31
180°	322	322	322	322	322	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5	797.5
2.5°	805.1	801.3	797.5	797.5	797.5	807.0	803.2	801.3	797.5	797.5
5°	805.1	801.3	799.4	801.3	805.1	814.5	812.6	812.6	814.5	814.5
7.5°	807.0	803.2	801.3	807.0	814.5	827.7	829.6	833.3	835.2	837.1
10°	807.0	803.2	805.1	814.5	825.8	844.7	850.3	856.0	859.7	861.6
12.5°	805.1	803.2	808.8	822.0	839.0	863.5	872.9	882.4	888.0	889.9
15°	803.2	803.2	810.7	829.6	852.2	882.4	895.6	910.6	918.2	918.2
17.5°	801.3	801.3	814.5	837.1	865.4	899.3	918.2	933.3	942.7	944.6
20°	797.5	797.5	814.5	842.8	876.7	912.5	933.3	950.2	961.6	963.4
22.5°	790.0	793.8	812.6	844.7	882.4	920.1	942.7	959.7	971.0	974.8
25°	780.6	784.3	807.0	842.8	884.3	923.8	946.5	961.6	971.0	972.9
27.5°	767.4	773.0	797.5	837.1	880.5	920.1	940.8	954.0	961.6	965.3
30°	750.4	757.9	784.3	825.8	871.1	906.9	927.6	938.9	944.6	948.4
32.5°	729.7	737.2	767.4	808.8	854.1	886.1	905.0	914.4	916.3	920.1
35°	707.0	714.6	746.6	788.1	831.5	861.6	876.7	884.3	882.4	886.1
37.5°	680.6	688.2	720.2	761.7	803.2	831.5	842.8	844.7	840.9	842.8
40°	650.5	658.0	690.1	731.5	769.2	795.6	801.3	797.5	793.8	795.6
42.5°	616.5	626.0	656.1	695.7	733.4	752.3	757.9	752.3	744.7	746.6
45°	580.7	590.1	620.3	658.0	691.9	708.9	708.9	701.4	695.7	693.8
47.5°	543.0	552.4	580.7	618.4	646.7	661.8	661.8	654.2	644.8	644.8
50°	505.3	512.8	539.2	576.9	599.6	614.6	610.9	603.3	595.8	593.9
52.5°	463.8	475.1	497.7	533.6	554.3	565.6	563.7	556.2	546.8	544.9
55°	426.1	435.5	456.3	486.4	505.3	516.6	512.8	505.3	497.7	494.0
57.5°	386.5	395.9	416.7	441.2	460.0	469.5	465.7	458.2	452.5	448.7
60°	348.8	356.3	375.2	395.9	412.9	420.4	418.6	412.9	407.2	403.5
62.5°	311.1	318.6	333.7	352.6	367.7	375.2	373.3	369.5	363.9	362.0
65°	275.3	280.9	294.1	311.1	322.4	329.9	329.9	326.2	322.4	320.5
67.5°	239.4	245.1	256.4	271.5	280.9	288.5	290.4	286.6	282.8	280.9
70°	205.5	211.2	218.7	231.9	241.3	248.9	250.8	248.9	245.1	245.1
72.5°	173.5	177.2	184.8	194.2	205.5	209.3	211.2	211.2	211.2	209.3
75°	141.4	145.2	152.7	162.1	169.7	175.3	177.2	177.2	175.3	175.3
77.5°	111.2	116.9	120.7	130.1	137.6	141.4	145.2	145.2	145.2	145.2
80°	84.8	88.6	92.4	99.9	105.6	111.2	115.0	116.9	116.9	116.9
82.5°	60.3	64.1	66.0	73.5	79.2	84.8	88.6	92.4	92.4	92.4
85°	35.8	39.6	43.4	50.9	56.6	62.2	67.9	69.8	71.6	71.6
87.5°	15.1	20.7	24.5	32.1	39.6	45.2	49.0	50.9	52.8	52.8
90°	1.9	7.5	13.2	18.9	24.5	30.2	33.9	35.8	37.7	37.7
92.5°	7.5	9.4	11.3	15.1	20.7	26.4	32.1	33.9	37.7	37.7
95°	18.9	22.6	20.7	20.7	24.5	39.6	54.7	62.2	67.9	69.8
97.5°	39.6	41.5	41.5	39.6	43.4	62.2	98.0	118.8	132.0	133.9
100°	64.1	67.9	67.9	64.1	69.8	96.2	158.4	194.2	216.8	224.4
102.5°	96.2	98.0	99.9	92.4	98.0	135.7	218.7	279.0	313.0	322.4
105°	128.2	132.0	132.0	122.6	128.2	175.3	267.7	356.3	405.4	424.2
107.5°	160.3	164.0	162.1	150.8	156.5	214.9	305.4	416.7	482.7	501.5
110°	190.4	194.2	190.4	181.0	186.7	250.8	331.8	463.8	539.2	567.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	218.7	220.6	216.8	211.2	214.9	279.0	362.0	490.2	578.8	605.2
115°	237.6	243.2	239.4	237.6	241.3	296.0	390.3	497.7	592.0	620.3
117.5°	247.0	258.3	262.1	260.2	267.7	311.1	409.1	490.2	582.6	612.8
120°	250.8	265.8	279.0	280.9	288.5	324.3	414.8	488.3	554.3	582.6
122.5°	258.3	267.7	290.4	296.0	307.3	335.6	412.9	482.7	535.5	550.5
125°	265.8	269.6	290.4	305.4	322.4	352.6	411.0	477.0	518.5	527.9
127.5°	271.5	277.2	290.4	309.2	333.7	363.9	405.4	471.4	503.4	516.6
130°	277.2	282.8	296.0	314.9	337.5	369.5	403.5	454.4	497.7	509.1
132.5°	282.8	290.4	303.5	320.5	343.1	369.5	395.9	428.0	463.8	471.4
135°	290.4	297.9	309.2	326.2	346.9	369.5	395.9	414.8	435.5	446.8
137.5°	296.0	303.5	313.0	331.8	348.8	363.9	384.6	407.2	424.2	433.6
140°	301.7	309.2	318.6	335.6	350.7	362.0	373.3	384.6	397.8	407.2
142.5°	305.4	313.0	322.4	337.5	352.6	360.1	367.7	373.3	379.0	380.9
145°	311.1	316.7	326.2	337.5	354.5	362.0	367.7	371.4	375.2	375.2
147.5°	314.9	318.6	328.1	337.5	354.5	363.9	367.7	371.4	373.3	375.2
150°	316.7	320.5	328.1	337.5	352.6	363.9	367.7	371.4	371.4	373.3
152.5°	320.5	322.4	329.9	337.5	348.8	362.0	365.8	369.5	373.3	373.3
155°	322.4	324.3	329.9	335.6	345.0	358.2	363.9	367.7	369.5	371.4
157.5°	324.3	326.2	331.8	335.6	343.1	352.6	360.1	363.9	367.7	367.7
160°	326.2	328.1	331.8	335.6	341.3	345.0	350.7	356.3	360.1	360.1
162.5°	328.1	329.9	333.7	335.6	339.4	343.1	345.0	345.0	348.8	348.8
165°	328.1	329.9	333.7	335.6	337.5	341.3	341.3	341.3	341.3	341.3
167.5°	328.1	329.9	331.8	333.7	337.5	339.4	339.4	339.4	339.4	339.4
170°	329.9	329.9	331.8	333.7	335.6	337.5	335.6	335.6	335.6	335.6
172.5°	328.1	328.1	329.9	331.8	333.7	333.7	333.7	331.8	331.8	329.9
175°	328.1	328.1	328.1	328.1	329.9	331.8	329.9	328.1	326.2	324.3
177.5°	328.1	328.1	326.2	326.2	326.2	326.2	324.3	322.4	320.5	318.6
180°	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4

(END OF REPORT)