

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: P183721

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183721  
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-1L30-1D-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**

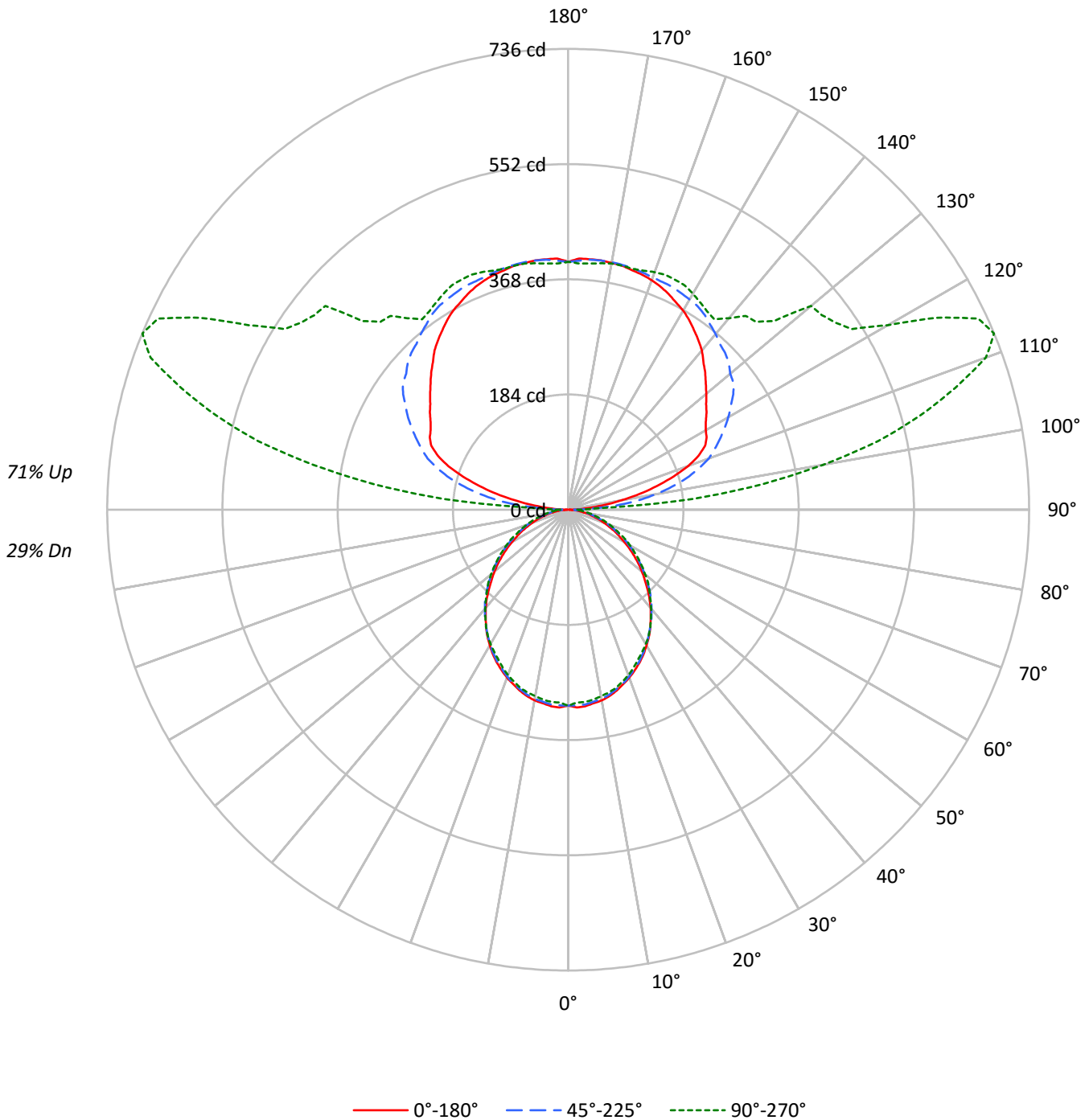
Lumens per Lamp: N/A  
Luminaire Lumens: 2748.7 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: Semi-Indirect

Input Watts (W): 26.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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			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°	2506	2506	2506
5°	2520	2419	2363
10°	2490	2320	2241
15°	2442	2205	2127
20°	2383	2089	1992
25°	2319	1969	1853
30°	2239	1843	1736
35°	2148	1710	1609
40°	2041	1587	1469
45°	1912	1455	1334
50°	1789	1308	1203
55°	1657	1167	1063
60°	1506	1020	928
65°	1380	866	787
70°	1218	723	664
75°	1071	564	527
80°	867	417	392
85°	630	281	284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.5	1.1
10°-20°	83.5	3.0
20°-30°	122.8	4.5
30°-40°	142.6	5.2
40°-50°	140.6	5.1
50°-60°	119.9	4.4
60°-70°	87.4	3.2
70°-80°	51.0	1.9
80°-90°	20.3	0.7
90°-100°	108.1	3.9
100°-110°	305.0	11.1
110°-120°	366.8	13.3
120°-130°	326.0	11.9
130°-140°	279.8	10.2
140°-150°	234.0	8.5
150°-160°	180.7	6.6
160°-170°	112.6	4.1
170°-180°	38.1	1.4
0°-30°	235.8	8.6
0°-40°	378.4	13.8
0°-60°	638.9	23.2
0°-90°	797.6	29.0
90°-120°	779.9	28.4
90°-150°	1619.6	58.9
90°-180°	1951.0	71.0
0°-180°	2748.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	313	313	313	313	313	
5°	315	311	312	311	308	30
15°	299	297	297	296	295	84
25°	270	267	268	265	264	124
35°	229	226	228	230	229	143
45°	179	180	184	183	183	138
55°	128	132	135	136	136	115
65°	82	86	88	91	91	81
75°	42	46	48	51	52	45
85°	11	15	18	21	23	12
90°	1	6	10	12	12	3
95°	34	41	77	172	200	39
105°	147	151	196	468	582	154
115°	241	241	267	517	722	234
125°	270	290	322	451	521	242
135°	309	323	354	394	424	239
145°	350	358	380	384	387	220
155°	380	379	393	401	405	175
165°	396	396	399	397	398	112
175°	402	400	401	398	395	38
180°	396	396	396	396	396	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8
2.5°	316.2	313.9	312.8	311.6	311.6	313.9	312.8	311.6	309.3	308.2
5°	315.0	312.8	311.6	310.5	311.6	312.8	311.6	310.5	309.3	308.2
7.5°	311.6	310.5	308.2	308.2	308.2	310.5	308.2	308.2	307.1	305.9
10°	309.3	307.1	305.9	305.9	305.9	308.2	305.9	304.8	303.7	302.5
12.5°	304.8	302.5	301.4	301.4	301.4	303.7	301.4	300.2	299.1	299.1
15°	299.1	298.0	296.8	295.7	295.7	298.0	296.8	295.7	294.6	294.6
17.5°	292.3	291.1	290.0	290.0	290.0	292.3	290.0	288.9	287.7	287.7
20°	285.5	284.3	283.2	283.2	283.2	284.3	283.2	282.0	280.9	280.9
22.5°	277.5	276.4	275.2	275.2	275.2	276.4	275.2	273.0	273.0	273.0
25°	269.5	268.4	267.3	266.1	267.3	268.4	266.1	265.0	263.9	263.9
27.5°	260.4	259.3	258.2	257.0	258.2	259.3	258.2	255.9	255.9	255.9
30°	250.2	249.1	247.9	247.9	249.1	249.1	247.9	247.9	247.9	247.9
32.5°	240.0	238.8	237.7	237.7	238.8	238.8	240.0	240.0	238.8	238.8
35°	228.6	227.5	226.3	226.3	227.5	228.6	229.7	229.7	229.7	228.6
37.5°	216.1	216.1	214.9	214.9	217.2	219.5	219.5	218.4	218.4	217.2
40°	204.7	203.6	203.6	203.6	205.9	208.1	208.1	207.0	205.9	205.9
42.5°	192.2	192.2	192.2	192.2	195.6	196.8	195.6	195.6	194.5	194.5
45°	178.6	179.7	179.7	179.7	184.2	184.2	184.2	183.1	184.2	183.1
47.5°	166.0	167.2	167.2	169.5	171.7	171.7	171.7	172.9	172.9	172.9
50°	153.5	154.7	154.7	158.1	159.2	159.2	160.4	160.4	160.4	160.4
52.5°	141.0	141.0	142.2	145.6	146.7	147.8	147.8	149.0	149.0	149.0
55°	128.5	129.7	130.8	134.2	134.2	136.5	136.5	136.5	137.6	136.5
57.5°	116.0	117.1	118.3	120.6	122.8	124.0	124.0	125.1	125.1	125.1
60°	103.5	105.8	108.0	109.2	111.5	111.5	112.6	113.7	113.7	113.7
62.5°	92.1	94.4	96.7	97.8	98.9	100.1	101.2	102.4	103.5	103.5
65°	81.9	83.0	85.3	86.4	87.6	88.7	89.8	91.0	92.1	91.0
67.5°	70.5	72.8	75.1	76.2	77.3	78.5	79.6	80.7	80.7	80.7
70°	60.3	62.6	64.8	66.0	67.1	68.2	69.4	70.5	70.5	71.6
72.5°	51.2	53.5	54.6	55.7	56.9	58.0	59.1	60.3	61.4	61.4
75°	42.1	44.4	45.5	45.5	46.6	48.9	50.0	51.2	51.2	52.3
77.5°	33.0	35.3	36.4	37.5	38.7	39.8	40.9	42.1	43.2	43.2
80°	25.0	27.3	28.4	29.6	30.7	31.8	33.0	34.1	35.3	35.3
82.5°	17.1	20.5	20.5	21.6	22.7	25.0	26.2	27.3	28.4	28.4
85°	11.4	13.6	14.8	15.9	17.1	19.3	20.5	21.6	22.7	22.7
87.5°	4.5	8.0	9.1	10.2	12.5	13.6	14.8	15.9	17.1	17.1
90°	1.1	4.5	5.7	6.8	9.1	10.2	11.4	12.5	12.5	12.5
92.5°	14.8	17.1	17.1	19.3	23.9	36.4	45.5	47.8	46.6	43.2
95°	34.1	38.7	40.9	42.1	55.7	97.8	149.0	179.7	195.6	200.2
97.5°	59.1	64.8	68.2	66.0	84.2	139.9	220.6	275.2	304.8	312.8
100°	86.4	92.1	96.7	91.0	110.3	172.9	285.5	356.0	400.3	412.8
102.5°	117.1	122.8	126.2	116.0	135.3	204.7	340.1	429.9	485.6	507.2
105°	146.7	152.4	154.7	139.9	156.9	235.4	379.9	497.0	563.0	582.3
107.5°	176.3	179.7	179.7	164.9	176.3	260.4	402.6	550.5	627.8	648.3
110°	203.6	204.7	203.6	189.9	196.8	280.9	403.7	584.6	677.8	709.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	225.2	227.5	222.9	213.8	213.8	292.3	403.7	584.6	699.4	735.8
115°	241.1	246.8	242.2	237.7	235.4	299.1	410.6	552.7	679.0	722.2
117.5°	249.1	260.4	261.6	257.0	257.0	305.9	412.8	508.4	622.1	664.2
120°	253.6	267.3	279.8	275.2	277.5	312.8	406.0	482.2	558.4	589.1
122.5°	260.4	267.3	288.9	287.7	295.7	319.6	399.2	470.8	524.3	536.8
125°	269.5	270.7	287.7	295.7	308.2	335.5	398.1	468.6	509.5	520.9
127.5°	277.5	279.8	290.0	301.4	318.4	346.9	390.1	461.7	494.7	510.6
130°	287.7	290.0	298.0	310.5	325.3	350.3	384.4	440.1	491.3	506.1
132.5°	298.0	301.4	309.3	323.0	336.6	358.2	376.4	402.6	439.0	445.8
135°	309.3	312.8	319.6	333.2	346.9	361.7	383.3	398.1	416.3	424.2
137.5°	319.6	323.0	328.7	341.2	354.8	362.8	379.9	398.1	411.7	419.7
140°	332.1	334.4	340.1	350.3	363.9	368.5	375.3	383.3	393.5	399.2
142.5°	341.2	343.5	348.0	357.1	369.6	375.3	377.6	379.9	383.3	383.3
145°	350.3	351.4	356.0	362.8	376.4	383.3	383.3	384.4	386.7	386.7
147.5°	359.4	359.4	362.8	368.5	381.0	389.0	391.2	390.1	391.2	392.4
150°	367.3	366.2	368.5	374.2	384.4	391.2	395.8	396.9	396.9	398.1
152.5°	373.0	373.0	373.0	377.6	386.7	393.5	396.9	400.3	402.6	403.7
155°	379.9	378.7	378.7	381.0	389.0	396.9	399.2	401.5	403.7	404.9
157.5°	385.5	385.5	384.4	385.5	390.1	396.9	401.5	402.6	404.9	406.0
160°	390.1	389.0	389.0	389.0	392.4	396.9	399.2	401.5	403.7	403.7
162.5°	393.5	393.5	392.4	392.4	395.8	398.1	396.9	396.9	399.2	400.3
165°	395.8	396.9	395.8	395.8	398.1	400.3	399.2	396.9	396.9	398.1
167.5°	399.2	399.2	399.2	398.1	399.2	401.5	400.3	399.2	399.2	399.2
170°	400.3	400.3	400.3	400.3	400.3	402.6	400.3	399.2	399.2	399.2
172.5°	401.5	400.3	400.3	400.3	400.3	402.6	400.3	398.1	396.9	396.9
175°	401.5	401.5	400.3	400.3	400.3	401.5	399.2	398.1	395.8	394.6
177.5°	401.5	400.3	399.2	396.9	396.9	399.2	396.9	394.6	393.5	393.5
180°	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8

(END OF REPORT)