

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: P183751

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183751
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-1L30-1D-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: 2713.4 lumens
Efficiency: N/A
Efficacy: 104.0 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

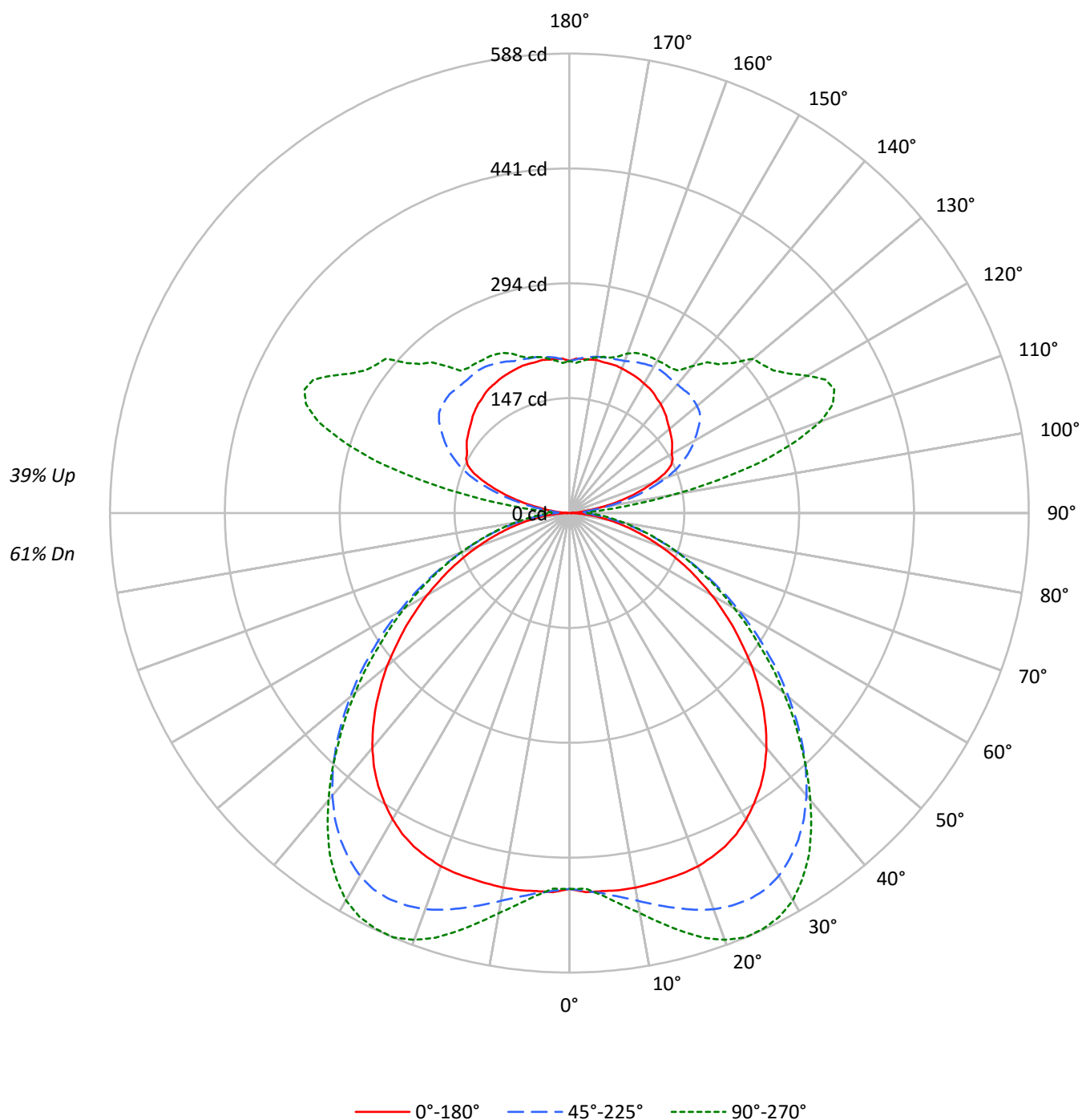
Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	56
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	49	47
3	83	73	66	60	77	69	62	56	60	55	51	52	48	45	45	42	40
4	76	65	56	50	71	61	53	48	53	48	43	47	42	38	40	37	34
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26
7	59	47	38	33	55	44	36	31	39	33	28	34	29	26	30	26	23
8	55	42	34	29	51	40	33	27	35	29	25	31	26	23	27	23	20
9	51	38	31	26	48	36	29	24	32	27	22	29	24	20	25	21	18
10	48	35	28	23	45	33	27	22	30	24	20	26	22	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3853	3853	3853
5°	3885	3784	3767
10°	3919	3807	3850
15°	3956	3886	3998
20°	4015	3972	4121
25°	4051	4009	4119
30°	4050	3966	4006
35°	4008	3830	3763
40°	3911	3618	3423
45°	3750	3338	3048
50°	3552	3008	2686
55°	3314	2658	2321
60°	3062	2299	1987
65°	2798	1932	1672
70°	2504	1580	1370
75°	2169	1230	1066
80°	1776	872	784
85°	1193	552	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	1.7
10°-20°	147.7	5.4
20°-30°	246.7	9.1
30°-40°	308.3	11.4
40°-50°	310.4	11.4
50°-60°	262.7	9.7
60°-70°	187.6	6.9
70°-80°	106.7	3.9
80°-90°	39.5	1.5
90°-100°	34.3	1.3
100°-110°	138.2	5.1
110°-120°	206.6	7.6
120°-130°	200.7	7.4
130°-140°	169.6	6.3
140°-150°	133.0	4.9
150°-160°	97.4	3.6
160°-170°	57.9	2.1
170°-180°	19.0	0.7
0°-30°	441.4	16.3
0°-40°	749.7	27.6
0°-60°	1322.9	48.8
0°-90°	1656.7	61.1
90°-120°	379.1	14.0
90°-150°	882.5	32.5
90°-180°	1057.0	39.0
0°-180°	2713.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	481	481	481	481	481	
5°	486	482	488	490	491	46
15°	484	492	523	547	554	137
25°	471	492	545	578	587	217
35°	426	457	511	532	534	266
45°	350	380	422	424	418	270
55°	257	280	308	306	298	230
65°	166	180	197	197	193	165
75°	85	94	104	107	106	91
85°	22	27	36	42	43	24
90°	1	9	16	21	23	2
95°	11	12	19	36	42	15
105°	77	78	92	202	256	81
115°	143	144	162	284	374	138
125°	160	177	204	278	318	143
135°	175	189	216	247	270	135
145°	188	198	216	223	226	117
155°	194	200	212	221	224	90
165°	198	202	205	206	206	56
175°	198	198	200	198	196	19
180°	194	194	194	194	194	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0
2.5°	485.6	483.3	481.0	481.0	481.0	486.7	484.5	483.3	481.0	481.0
5°	485.6	483.3	482.2	483.3	485.6	491.3	490.1	490.1	491.3	491.3
7.5°	486.7	484.5	483.3	486.7	491.3	499.2	500.4	502.7	503.8	504.9
10°	486.7	484.5	485.6	491.3	498.1	509.5	512.9	516.3	518.6	519.7
12.5°	485.6	484.5	487.9	495.8	506.1	520.9	526.5	532.2	535.6	536.8
15°	484.5	484.5	489.0	500.4	514.0	532.2	540.2	549.3	553.8	553.8
17.5°	483.3	483.3	491.3	504.9	522.0	542.5	553.8	562.9	568.6	569.8
20°	481.0	481.0	491.3	508.3	528.8	550.4	562.9	573.2	580.0	581.1
22.5°	476.5	478.8	490.1	509.5	532.2	555.0	568.6	578.9	585.7	587.9
25°	470.8	473.1	486.7	508.3	533.4	557.2	570.9	580.0	585.7	586.8
27.5°	462.9	466.3	481.0	504.9	531.1	555.0	567.5	575.4	580.0	582.3
30°	452.6	457.2	473.1	498.1	525.4	547.0	559.5	566.3	569.8	572.0
32.5°	440.1	444.7	462.9	487.9	515.2	534.5	545.9	551.6	552.7	555.0
35°	426.5	431.0	450.3	475.4	501.5	519.7	528.8	533.4	532.2	534.5
37.5°	410.5	415.1	434.4	459.4	484.5	501.5	508.3	509.5	507.2	508.3
40°	392.3	396.9	416.2	441.2	464.0	479.9	483.3	481.0	478.8	479.9
42.5°	371.9	377.6	395.8	419.6	442.4	453.8	457.2	453.8	449.2	450.3
45°	350.3	356.0	374.1	396.9	417.4	427.6	427.6	423.0	419.6	418.5
47.5°	327.5	333.2	350.3	373.0	390.1	399.2	399.2	394.6	388.9	388.9
50°	304.8	309.3	325.2	348.0	361.6	370.7	368.5	363.9	359.4	358.2
52.5°	279.8	286.6	300.2	321.8	334.3	341.2	340.0	335.5	329.8	328.7
55°	257.0	262.7	275.2	293.4	304.8	311.6	309.3	304.8	300.2	298.0
57.5°	233.1	238.8	251.3	266.1	277.5	283.2	280.9	276.3	272.9	270.7
60°	210.4	214.9	226.3	238.8	249.1	253.6	252.5	249.1	245.6	243.4
62.5°	187.6	192.2	201.3	212.7	221.8	226.3	225.2	222.9	219.5	218.3
65°	166.0	169.4	177.4	187.6	194.5	199.0	199.0	196.7	194.5	193.3
67.5°	144.4	147.8	154.7	163.8	169.4	174.0	175.1	172.9	170.6	169.4
70°	124.0	127.4	131.9	139.9	145.6	150.1	151.3	150.1	147.8	147.8
72.5°	104.6	106.9	111.4	117.1	124.0	126.2	127.4	127.4	127.4	126.2
75°	85.3	87.6	92.1	97.8	102.4	105.8	106.9	106.9	105.8	105.8
77.5°	67.1	70.5	72.8	78.5	83.0	85.3	87.6	87.6	87.6	87.6
80°	51.2	53.4	55.7	60.3	63.7	67.1	69.4	70.5	70.5	70.5
82.5°	36.4	38.7	39.8	44.4	47.8	51.2	53.4	55.7	55.7	55.7
85°	21.6	23.9	26.2	30.7	34.1	37.5	40.9	42.1	43.2	43.2
87.5°	9.1	12.5	14.8	19.3	23.9	27.3	29.6	30.7	31.8	31.8
90°	1.1	4.5	8.0	11.4	14.8	18.2	20.5	21.6	22.7	22.7
92.5°	4.5	5.7	6.8	9.1	12.5	15.9	19.3	20.5	22.7	22.7
95°	11.4	13.6	12.5	12.5	14.8	23.9	33.0	37.5	40.9	42.1
97.5°	23.9	25.0	25.0	23.9	26.2	37.5	59.1	71.6	79.6	80.7
100°	38.7	40.9	40.9	38.7	42.1	58.0	95.5	117.1	130.8	135.3
102.5°	58.0	59.1	60.3	55.7	59.1	81.9	131.9	168.3	188.8	194.5
105°	77.3	79.6	79.6	73.9	77.3	105.8	161.5	214.9	244.5	255.9
107.5°	96.7	98.9	97.8	91.0	94.4	129.6	184.2	251.3	291.1	302.5
110°	114.9	117.1	114.9	109.2	112.6	151.3	200.2	279.8	325.2	342.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	131.9	133.1	130.8	127.4	129.6	168.3	218.3	295.7	349.1	365.1
115°	143.3	146.7	144.4	143.3	145.6	178.5	235.4	300.2	357.1	374.1
117.5°	149.0	155.8	158.1	156.9	161.5	187.6	246.8	295.7	351.4	369.6
120°	151.3	160.3	168.3	169.4	174.0	195.6	250.2	294.5	334.3	351.4
122.5°	155.8	161.5	175.1	178.5	185.4	202.4	249.1	291.1	323.0	332.1
125°	160.3	162.6	175.1	184.2	194.5	212.7	247.9	287.7	312.7	318.4
127.5°	163.8	167.2	175.1	186.5	201.3	219.5	244.5	284.3	303.6	311.6
130°	167.2	170.6	178.5	189.9	203.6	222.9	243.4	274.1	300.2	307.1
132.5°	170.6	175.1	183.1	193.3	207.0	222.9	238.8	258.2	279.8	284.3
135°	175.1	179.7	186.5	196.7	209.3	222.9	238.8	250.2	262.7	269.5
137.5°	178.5	183.1	188.8	200.2	210.4	219.5	232.0	245.6	255.9	261.6
140°	182.0	186.5	192.2	202.4	211.5	218.3	225.2	232.0	240.0	245.6
142.5°	184.2	188.8	194.5	203.6	212.7	217.2	221.8	225.2	228.6	229.7
145°	187.6	191.1	196.7	203.6	213.8	218.3	221.8	224.0	226.3	226.3
147.5°	189.9	192.2	197.9	203.6	213.8	219.5	221.8	224.0	225.2	226.3
150°	191.1	193.3	197.9	203.6	212.7	219.5	221.8	224.0	224.0	225.2
152.5°	193.3	194.5	199.0	203.6	210.4	218.3	220.6	222.9	225.2	225.2
155°	194.5	195.6	199.0	202.4	208.1	216.1	219.5	221.8	222.9	224.0
157.5°	195.6	196.7	200.2	202.4	207.0	212.7	217.2	219.5	221.8	221.8
160°	196.7	197.9	200.2	202.4	205.8	208.1	211.5	214.9	217.2	217.2
162.5°	197.9	199.0	201.3	202.4	204.7	207.0	208.1	208.1	210.4	210.4
165°	197.9	199.0	201.3	202.4	203.6	205.8	205.8	205.8	205.8	205.8
167.5°	197.9	199.0	200.2	201.3	203.6	204.7	204.7	204.7	204.7	204.7
170°	199.0	199.0	200.2	201.3	202.4	203.6	202.4	202.4	202.4	202.4
172.5°	197.9	197.9	199.0	200.2	201.3	201.3	201.3	200.2	200.2	199.0
175°	197.9	197.9	197.9	197.9	199.0	200.2	199.0	197.9	196.7	195.6
177.5°	197.9	197.9	196.7	196.7	196.7	196.7	195.6	194.5	193.3	192.2
180°	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5	194.5

(END OF REPORT)