

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: P183736

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183736
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-1L30-1D-UNV-4-STD
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

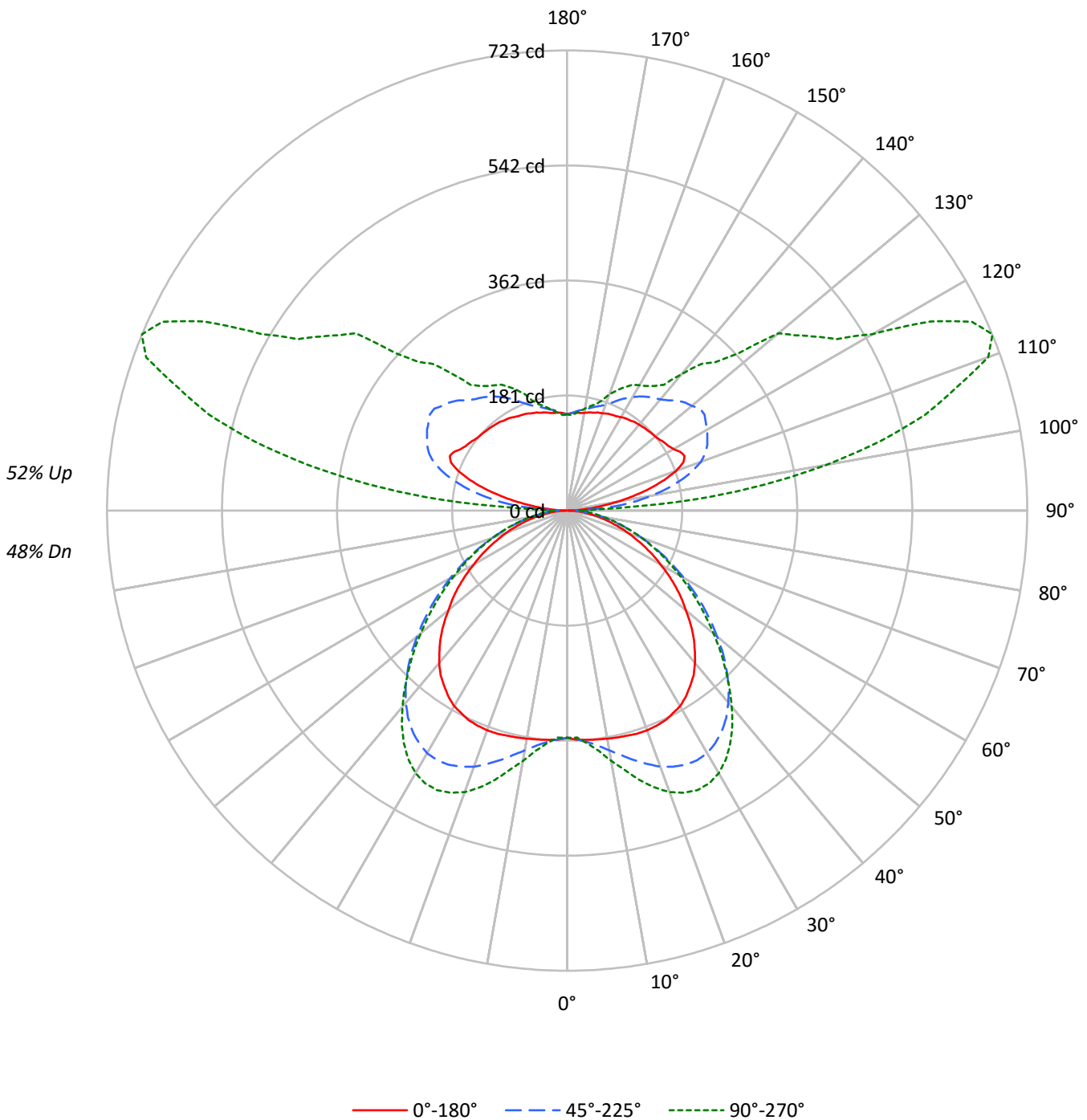
Lumens per Lamp: N/A
Luminaire Lumens: 2848.8 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.69 / 1.63
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: General Diffuse

Input Watts (W): 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				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°	2860	2860	2860
5°	2893	2828	2817
10°	2930	2891	2957
15°	2990	3016	3160
20°	3066	3152	3338
25°	3131	3239	3401
30°	3175	3255	3337
35°	3163	3177	3146
40°	3118	3020	2871
45°	3006	2798	2559
50°	2836	2526	2251
55°	2683	2241	1957
60°	2466	1935	1671
65°	2262	1636	1407
70°	2044	1330	1149
75°	1765	1028	893
80°	1461	735	645
85°	1066	464	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.2
10°-20°	114.8	4.0
20°-30°	198.6	7.0
30°-40°	254.0	8.9
40°-50°	257.9	9.1
50°-60°	218.7	7.7
60°-70°	156.5	5.5
70°-80°	89.0	3.1
80°-90°	33.2	1.2
90°-100°	106.0	3.7
100°-110°	294.6	10.3
110°-120°	340.6	12.0
120°-130°	270.5	9.5
130°-140°	194.7	6.8
140°-150°	133.4	4.7
150°-160°	88.3	3.1
160°-170°	47.9	1.7
170°-180°	15.0	0.5
0°-30°	348.7	12.2
0°-40°	602.7	21.2
0°-60°	1079.2	37.9
0°-90°	1357.9	47.7
90°-120°	741.1	26.0
90°-150°	1339.7	47.0
90°-180°	1491.0	52.3
0°-180°	2848.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	357	357	357	357	357	
5°	362	360	365	367	367	35
15°	366	376	406	430	438	104
25°	364	387	441	474	484	168
35°	337	368	424	446	447	210
45°	281	311	354	358	351	216
55°	208	231	260	257	251	185
65°	134	149	167	165	163	133
75°	69	78	87	89	89	74
85°	19	24	30	35	35	20
90°	1	9	14	18	18	3
95°	31	39	74	169	202	36
105°	135	140	185	460	582	141
115°	204	210	243	497	702	196
125°	186	217	263	400	476	167
135°	178	199	244	298	330	138
145°	173	187	218	233	239	109
155°	166	171	192	208	214	77
165°	159	162	169	173	173	45
175°	155	155	156	156	154	15
180°	151	151	151	151	151	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	357.0	357.0	357.0	357.0	357.0	357.0	357.0	357.0	357.0	357.0
2.5°	360.4	359.3	357.0	357.0	358.2	361.6	360.4	359.3	358.2	357.0
5°	361.6	359.3	359.3	360.4	362.7	367.3	367.3	367.3	367.3	367.3
7.5°	362.7	361.6	361.6	365.0	368.4	376.4	377.5	379.8	380.9	380.9
10°	363.9	362.7	365.0	370.7	377.5	387.7	392.3	395.7	398.0	399.1
12.5°	365.0	365.0	368.4	376.4	386.6	400.2	407.1	412.7	416.2	417.3
15°	366.1	367.3	372.9	384.3	398.0	413.9	424.1	432.1	436.6	437.8
17.5°	367.3	368.4	376.4	390.0	407.1	427.5	438.9	449.1	454.8	456.0
20°	367.3	369.5	379.8	396.8	417.3	438.9	452.5	462.8	468.5	470.7
22.5°	366.1	368.4	380.9	401.4	424.1	446.9	461.6	471.9	478.7	479.8
25°	363.9	367.3	382.0	403.6	428.7	452.5	467.3	476.4	482.1	484.4
27.5°	359.3	363.9	379.8	403.6	430.9	453.7	468.5	476.4	481.0	483.2
30°	354.8	359.3	376.4	401.4	428.7	451.4	463.9	471.9	475.3	476.4
32.5°	346.8	352.5	369.5	395.7	423.0	443.4	456.0	461.6	463.9	463.9
35°	336.6	342.2	361.6	387.7	413.9	433.2	443.4	446.9	446.9	446.9
37.5°	326.3	332.0	350.2	376.4	401.4	419.6	427.5	428.7	427.5	426.4
40°	312.7	318.4	336.6	362.7	386.6	401.4	407.1	405.9	403.6	402.5
42.5°	296.8	302.5	321.8	345.7	369.5	382.0	384.3	382.0	378.6	377.5
45°	280.8	286.5	304.7	328.6	349.1	359.3	360.4	357.0	352.5	351.3
47.5°	262.7	268.3	285.4	309.3	327.5	336.6	335.4	332.0	327.5	326.3
50°	243.3	250.1	266.1	288.8	303.6	311.5	310.4	305.9	301.3	300.2
52.5°	226.3	232.0	246.7	267.2	280.8	286.5	285.4	280.8	276.3	275.2
55°	208.1	212.6	226.3	244.5	257.0	262.7	260.4	255.8	251.3	251.3
57.5°	188.7	193.3	205.8	221.7	233.1	237.6	235.4	232.0	228.5	227.4
60°	169.4	175.1	186.5	200.1	210.4	212.6	211.5	208.1	205.8	204.7
62.5°	152.4	156.9	167.1	178.5	186.5	191.0	188.7	186.5	183.1	183.1
65°	134.2	138.7	146.7	156.9	164.9	168.3	167.1	164.9	162.6	162.6
67.5°	117.1	120.5	128.5	137.6	143.3	146.7	145.5	144.4	142.1	142.1
70°	101.2	103.5	110.3	117.1	122.8	126.2	126.2	125.1	123.9	123.9
72.5°	85.3	87.6	93.2	98.9	103.5	106.9	108.0	105.7	105.7	105.7
75°	69.4	72.8	76.2	81.9	85.3	88.7	89.8	88.7	88.7	88.7
77.5°	55.7	58.0	61.4	65.9	68.2	71.6	72.8	72.8	72.8	72.8
80°	42.1	44.3	47.8	50.0	53.4	56.9	58.0	58.0	59.1	58.0
82.5°	30.7	31.8	34.1	37.5	39.8	43.2	45.5	45.5	46.6	46.6
85°	19.3	20.5	22.7	26.2	28.4	31.8	34.1	35.2	35.2	35.2
87.5°	8.0	11.4	13.6	17.1	19.3	22.7	25.0	26.2	26.2	26.2
90°	1.1	5.7	8.0	10.2	12.5	14.8	17.1	18.2	18.2	18.2
92.5°	12.5	15.9	17.1	19.3	25.0	35.2	45.5	47.8	50.0	50.0
95°	30.7	36.4	38.7	39.8	53.4	94.4	144.4	177.4	194.4	202.4
97.5°	54.6	60.3	63.7	61.4	78.5	133.0	214.9	269.5	302.5	312.7
100°	79.6	86.4	89.8	84.1	103.5	166.0	278.6	349.1	395.7	413.9
102.5°	106.9	113.7	117.1	106.9	125.1	196.7	330.9	423.0	479.8	503.7
105°	135.3	139.9	143.3	129.6	145.5	225.1	372.9	488.9	556.0	582.2
107.5°	160.3	163.7	166.0	152.4	163.7	249.0	392.3	541.2	620.8	640.2
110°	181.9	185.3	185.3	174.0	180.8	266.1	392.3	574.2	668.6	703.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	197.8	202.4	200.1	193.3	194.4	275.2	388.9	571.9	689.0	723.2
115°	203.5	211.5	210.4	209.2	210.4	275.2	388.9	533.3	661.8	701.6
117.5°	200.1	213.8	220.6	219.4	222.9	274.0	384.3	482.1	595.8	643.6
120°	193.3	210.4	227.4	228.5	234.2	274.0	370.7	451.4	524.2	554.9
122.5°	188.7	197.8	225.1	230.8	243.3	272.9	357.0	429.8	485.5	501.4
125°	186.5	189.9	212.6	229.7	246.7	279.7	346.8	418.4	463.9	476.4
127.5°	183.1	186.5	202.4	222.9	245.6	280.8	327.5	402.5	438.9	452.5
130°	180.8	185.3	197.8	217.2	239.9	271.8	311.5	369.5	420.7	433.2
132.5°	179.7	184.2	196.7	216.0	237.6	264.9	291.1	321.8	360.4	366.1
135°	178.5	183.1	194.4	212.6	233.1	255.8	283.1	303.6	322.9	329.7
137.5°	177.4	181.9	191.0	209.2	227.4	242.2	266.1	289.9	307.0	312.7
140°	176.2	179.7	189.9	205.8	222.9	233.1	245.6	259.2	271.8	279.7
142.5°	175.1	178.5	186.5	201.3	218.3	228.5	235.4	242.2	246.7	249.0
145°	172.8	176.2	184.2	196.7	212.6	224.0	229.7	234.2	237.6	238.8
147.5°	171.7	172.8	179.7	191.0	206.9	218.3	225.1	228.5	230.8	232.0
150°	169.4	170.6	176.2	186.5	200.1	211.5	219.4	225.1	226.3	227.4
152.5°	167.1	168.3	172.8	180.8	193.3	204.7	211.5	218.3	221.7	222.9
155°	166.0	166.0	169.4	176.2	186.5	196.7	203.5	209.2	212.6	213.8
157.5°	164.9	164.9	167.1	172.8	179.7	187.6	195.6	200.1	203.5	204.7
160°	162.6	162.6	164.9	169.4	174.0	179.7	185.3	191.0	194.4	194.4
162.5°	161.5	161.5	162.6	166.0	170.6	174.0	176.2	178.5	180.8	180.8
165°	159.2	160.3	161.5	163.7	167.1	170.6	171.7	172.8	172.8	172.8
167.5°	158.0	159.2	160.3	161.5	163.7	166.0	167.1	168.3	168.3	168.3
170°	155.8	156.9	158.0	160.3	160.3	162.6	162.6	163.7	163.7	162.6
172.5°	154.6	155.8	156.9	158.0	159.2	159.2	159.2	159.2	158.0	158.0
175°	154.6	154.6	154.6	155.8	155.8	156.9	156.9	155.8	154.6	153.5
177.5°	153.5	153.5	153.5	153.5	152.4	153.5	152.4	152.4	151.2	150.1
180°	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2	151.2

(END OF REPORT)