

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: P183762

Luminaire Tested: **I2-WS-2L40-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183762
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-2L40-1D-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)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

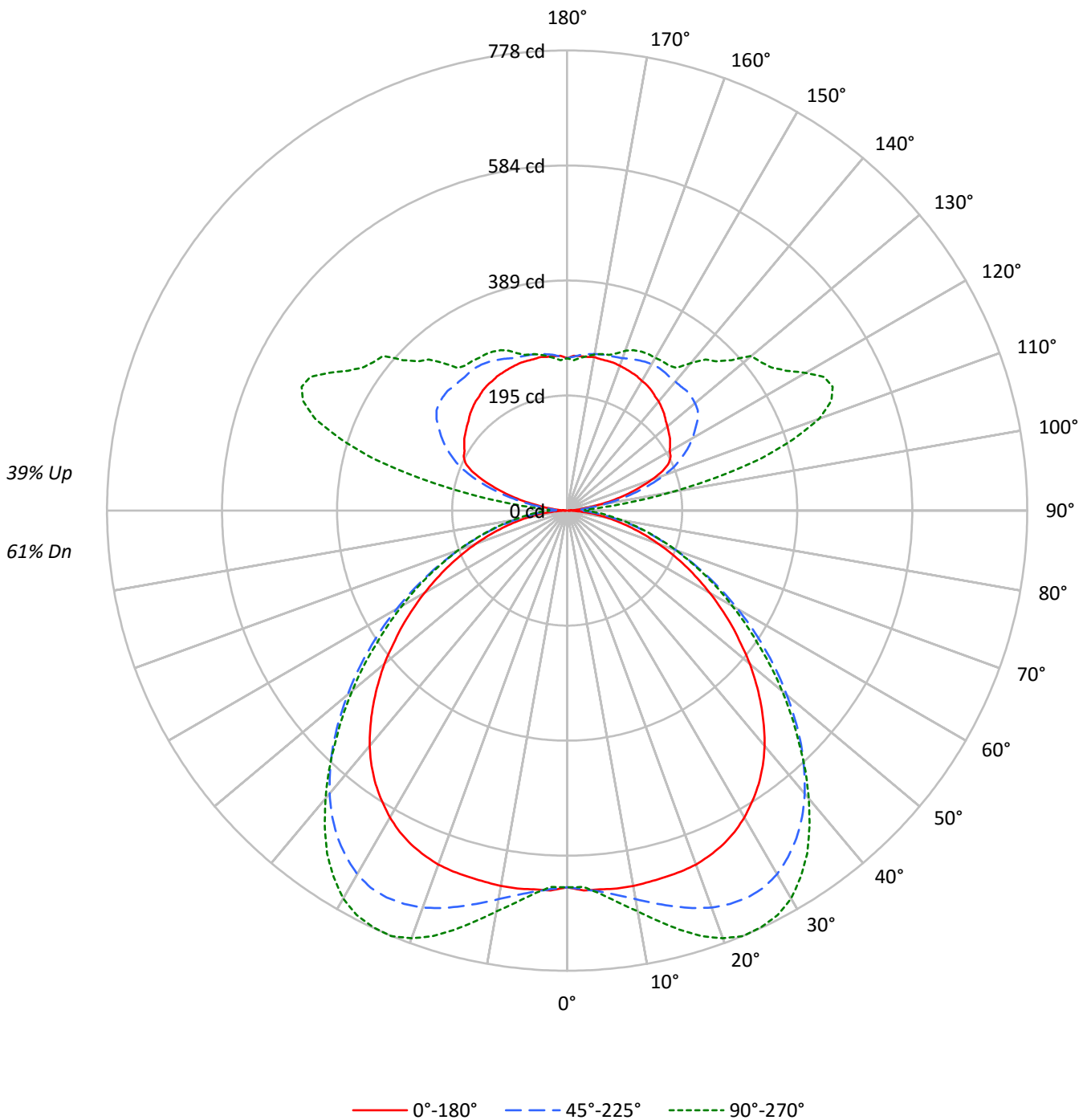
Lumens per Lamp: N/A
Luminaire Lumens: 3592.5 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 35.5
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°	5102	5102	5102
5°	5143	5010	4988
10°	5188	5040	5098
15°	5238	5146	5293
20°	5317	5259	5456
25°	5364	5308	5454
30°	5362	5251	5304
35°	5305	5071	4983
40°	5179	4790	4532
45°	4964	4419	4036
50°	4703	3982	3556
55°	4388	3518	3072
60°	4054	3044	2631
65°	3704	2558	2214
70°	3314	2091	1814
75°	2871	1628	1410
80°	2352	1154	1038
85°	1579	732	715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	1.7
10°-20°	195.6	5.4
20°-30°	326.6	9.1
30°-40°	408.2	11.4
40°-50°	411.0	11.4
50°-60°	347.8	9.7
60°-70°	248.4	6.9
70°-80°	141.2	3.9
80°-90°	52.4	1.5
90°-100°	45.4	1.3
100°-110°	183.0	5.1
110°-120°	273.5	7.6
120°-130°	265.8	7.4
130°-140°	224.6	6.3
140°-150°	176.1	4.9
150°-160°	128.9	3.6
160°-170°	76.6	2.1
170°-180°	25.2	0.7
0°-30°	584.4	16.3
0°-40°	992.6	27.6
0°-60°	1751.5	48.8
0°-90°	2193.4	61.1
90°-120°	502.0	14.0
90°-150°	1168.4	32.5
90°-180°	1399.0	38.9
0°-180°	3592.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	643	639	647	649	650	61
15°	641	651	693	724	733	182
25°	623	652	722	765	777	287
35°	565	604	676	705	708	352
45°	464	503	559	562	554	357
55°	340	370	408	405	394	304
65°	220	238	260	261	256	218
75°	113	124	138	142	140	120
85°	29	36	47	55	57	32
90°	2	12	22	28	30	3
95°	15	17	26	48	56	20
105°	102	104	121	267	339	108
115°	190	191	215	376	495	183
125°	212	235	270	368	422	190
135°	232	250	286	327	357	179
145°	248	263	286	296	300	155
155°	258	265	281	293	297	119
165°	262	267	271	272	272	74
175°	262	262	264	262	259	25
180°	258	258	258	258	258	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9
2.5°	642.9	639.9	636.9	636.9	636.9	644.4	641.4	639.9	636.9	636.9
5°	642.9	639.9	638.4	639.9	642.9	650.4	648.9	648.9	650.4	650.4
7.5°	644.4	641.4	639.9	644.4	650.4	661.0	662.5	665.5	667.0	668.5
10°	644.4	641.4	642.9	650.4	659.5	674.5	679.0	683.6	686.6	688.1
12.5°	642.9	641.4	645.9	656.5	670.0	689.6	697.1	704.6	709.2	710.7
15°	641.4	641.4	647.4	662.5	680.6	704.6	715.2	727.2	733.3	733.3
17.5°	639.9	639.9	650.4	668.5	691.1	718.2	733.3	745.3	752.8	754.3
20°	636.9	636.9	650.4	673.0	700.1	728.7	745.3	758.8	767.9	769.4
22.5°	630.9	633.9	648.9	674.5	704.6	734.8	752.8	766.4	775.4	778.4
25°	623.3	626.4	644.4	673.0	706.2	737.8	755.8	767.9	775.4	776.9
27.5°	612.8	617.3	636.9	668.5	703.1	734.8	751.3	761.9	767.9	770.9
30°	599.2	605.3	626.4	659.5	695.6	724.2	740.8	749.8	754.3	757.3
32.5°	582.7	588.7	612.8	645.9	682.1	707.7	722.7	730.2	731.7	734.8
35°	564.6	570.6	596.2	629.4	664.0	688.1	700.1	706.2	704.6	707.7
37.5°	543.5	549.6	575.2	608.3	641.4	664.0	673.0	674.5	671.5	673.0
40°	519.4	525.5	551.1	584.2	614.3	635.4	639.9	636.9	633.9	635.4
42.5°	492.3	499.9	524.0	555.6	585.7	600.8	605.3	600.8	594.7	596.2
45°	463.7	471.3	495.4	525.5	552.6	566.1	566.1	560.1	555.6	554.1
47.5°	433.6	441.2	463.7	493.9	516.4	528.5	528.5	522.5	514.9	514.9
50°	403.5	409.5	430.6	460.7	478.8	490.8	487.8	481.8	475.8	474.3
52.5°	370.4	379.4	397.5	426.1	442.7	451.7	450.2	444.2	436.6	435.1
55°	340.3	347.8	364.4	388.5	403.5	412.5	409.5	403.5	397.5	394.5
57.5°	308.7	316.2	332.7	352.3	367.4	374.9	371.9	365.9	361.4	358.3
60°	278.5	284.6	299.6	316.2	329.7	335.8	334.3	329.7	325.2	322.2
62.5°	248.4	254.5	266.5	281.6	293.6	299.6	298.1	295.1	290.6	289.1
65°	219.8	224.3	234.9	248.4	257.5	263.5	263.5	260.5	257.5	256.0
67.5°	191.2	195.7	204.8	216.8	224.3	230.4	231.9	228.9	225.8	224.3
70°	164.1	168.6	174.7	185.2	192.7	198.7	200.3	198.7	195.7	195.7
72.5°	138.5	141.5	147.6	155.1	164.1	167.1	168.6	168.6	168.6	167.1
75°	112.9	115.9	122.0	129.5	135.5	140.0	141.5	141.5	140.0	140.0
77.5°	88.8	93.4	96.4	103.9	109.9	112.9	115.9	115.9	115.9	115.9
80°	67.8	70.8	73.8	79.8	84.3	88.8	91.8	93.4	93.4	93.4
82.5°	48.2	51.2	52.7	58.7	63.2	67.8	70.8	73.8	73.8	73.8
85°	28.6	31.6	34.6	40.7	45.2	49.7	54.2	55.7	57.2	57.2
87.5°	12.0	16.6	19.6	25.6	31.6	36.1	39.1	40.7	42.2	42.2
90°	1.5	6.0	10.5	15.1	19.6	24.1	27.1	28.6	30.1	30.1
92.5°	6.0	7.5	9.0	12.0	16.6	21.1	25.6	27.1	30.1	30.1
95°	15.1	18.1	16.6	16.6	19.6	31.6	43.7	49.7	54.2	55.7
97.5°	31.6	33.1	33.1	31.6	34.6	49.7	78.3	94.9	105.4	106.9
100°	51.2	54.2	54.2	51.2	55.7	76.8	126.5	155.1	173.1	179.2
102.5°	76.8	78.3	79.8	73.8	78.3	108.4	174.7	222.8	249.9	257.5
105°	102.4	105.4	105.4	97.9	102.4	140.0	213.8	284.6	323.7	338.8
107.5°	128.0	131.0	129.5	120.5	125.0	171.6	243.9	332.7	385.4	400.5
110°	152.1	155.1	152.1	144.5	149.1	200.3	265.0	370.4	430.6	453.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	174.7	176.2	173.1	168.6	171.6	222.8	289.1	391.5	462.2	483.3
115°	189.7	194.2	191.2	189.7	192.7	236.4	311.7	397.5	472.8	495.4
117.5°	197.2	206.3	209.3	207.8	213.8	248.4	326.7	391.5	465.2	489.3
120°	200.3	212.3	222.8	224.3	230.4	259.0	331.2	390.0	442.7	465.2
122.5°	206.3	213.8	231.9	236.4	245.4	268.0	329.7	385.4	427.6	439.7
125°	212.3	215.3	231.9	243.9	257.5	281.6	328.2	380.9	414.1	421.6
127.5°	216.8	221.3	231.9	246.9	266.5	290.6	323.7	376.4	402.0	412.5
130°	221.3	225.8	236.4	251.4	269.5	295.1	322.2	362.9	397.5	406.5
132.5°	225.8	231.9	242.4	256.0	274.0	295.1	316.2	341.8	370.4	376.4
135°	231.9	237.9	246.9	260.5	277.0	295.1	316.2	331.2	347.8	356.8
137.5°	236.4	242.4	249.9	265.0	278.5	290.6	307.2	325.2	338.8	346.3
140°	240.9	246.9	254.5	268.0	280.1	289.1	298.1	307.2	317.7	325.2
142.5°	243.9	249.9	257.5	269.5	281.6	287.6	293.6	298.1	302.6	304.1
145°	248.4	252.9	260.5	269.5	283.1	289.1	293.6	296.6	299.6	299.6
147.5°	251.4	254.5	262.0	269.5	283.1	290.6	293.6	296.6	298.1	299.6
150°	252.9	256.0	262.0	269.5	281.6	290.6	293.6	296.6	296.6	298.1
152.5°	256.0	257.5	263.5	269.5	278.5	289.1	292.1	295.1	298.1	298.1
155°	257.5	259.0	263.5	268.0	275.5	286.1	290.6	293.6	295.1	296.6
157.5°	259.0	260.5	265.0	268.0	274.0	281.6	287.6	290.6	293.6	293.6
160°	260.5	262.0	265.0	268.0	272.5	275.5	280.1	284.6	287.6	287.6
162.5°	262.0	263.5	266.5	268.0	271.0	274.0	275.5	275.5	278.5	278.5
165°	262.0	263.5	266.5	268.0	269.5	272.5	272.5	272.5	272.5	272.5
167.5°	262.0	263.5	265.0	266.5	269.5	271.0	271.0	271.0	271.0	271.0
170°	263.5	263.5	265.0	266.5	268.0	269.5	268.0	268.0	268.0	268.0
172.5°	262.0	262.0	263.5	265.0	266.5	266.5	266.5	265.0	265.0	263.5
175°	262.0	262.0	262.0	262.0	263.5	265.0	263.5	262.0	260.5	259.0
177.5°	262.0	262.0	260.5	260.5	260.5	260.5	259.0	257.5	256.0	254.5
180°	257.5	257.5	257.5	257.5	257.5	257.5	257.5	257.5	257.5	257.5

(END OF REPORT)