

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: P183761

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183761
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-1L40-1D-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

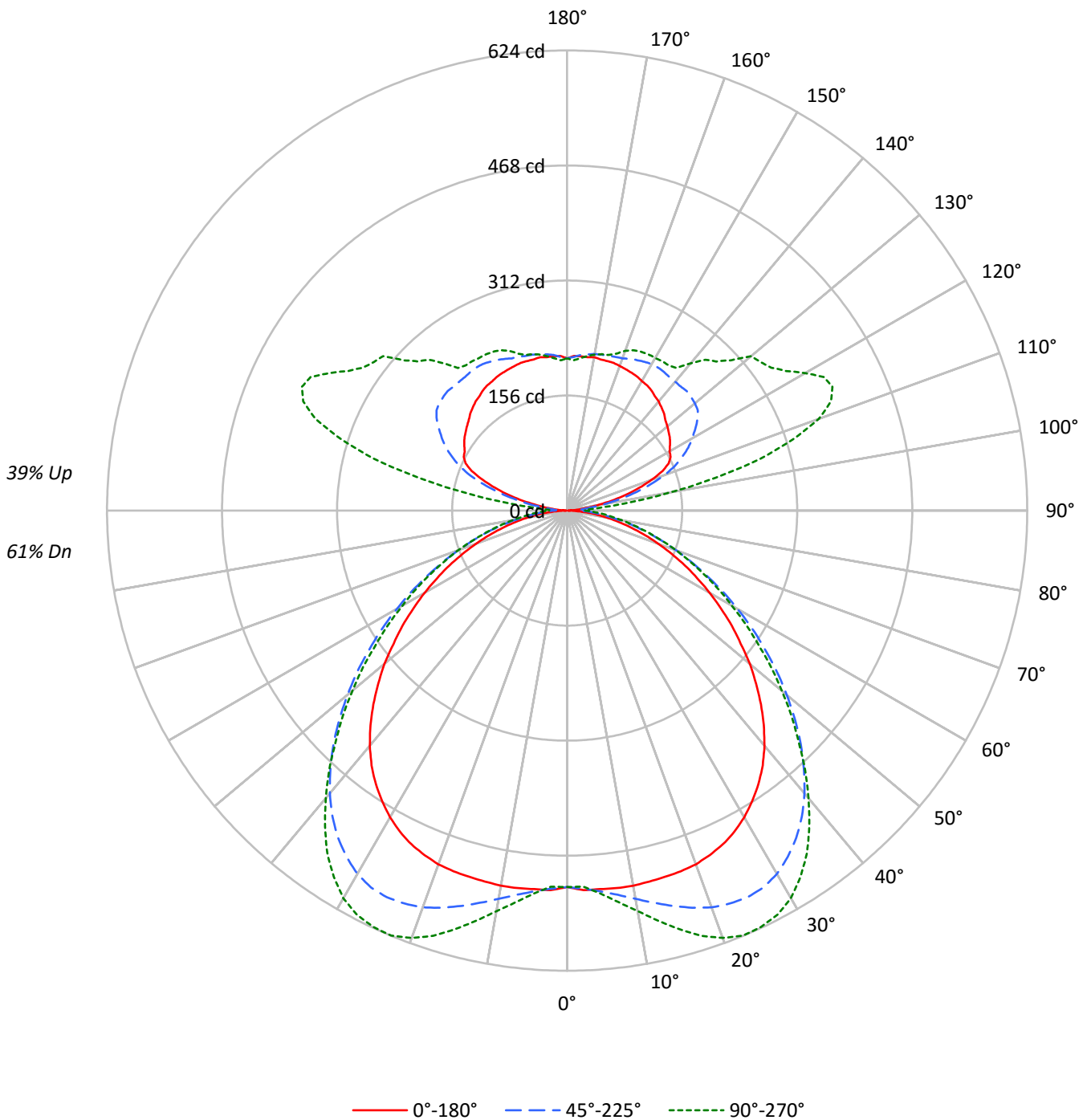
Lumens per Lamp: N/A
Luminaire Lumens: 2879.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: P183761
CATALOG NUMBER: I2-WS-1L40-1D-UNV-4-STD-DM5

Luminous Intensity Polar Plot





TEST NUMBER: P183761

CATALOG NUMBER: I2-WS-1L40-1D-UNV-4-STD-DM5

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°	4089	4089	4089
5°	4122	4015	3998
10°	4158	4039	4085
15°	4197	4124	4242
20°	4261	4215	4372
25°	4298	4253	4371
30°	4297	4208	4250
35°	4252	4063	3993
40°	4151	3839	3632
45°	3978	3541	3234
50°	3769	3192	2850
55°	3517	2820	2462
60°	3249	2439	2108
65°	2970	2050	1774
70°	2656	1676	1455
75°	2302	1305	1130
80°	1884	925	831
85°	1265	586	574



TEST NUMBER: P183761

CATALOG NUMBER: I2-WS-1L40-1D-UNV-4-STD-DM5

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	1.7
10°-20°	156.8	5.4
20°-30°	261.7	9.1
30°-40°	327.1	11.4
40°-50°	329.4	11.4
50°-60°	278.7	9.7
60°-70°	199.0	6.9
70°-80°	113.2	3.9
80°-90°	41.9	1.5
90°-100°	36.4	1.3
100°-110°	146.7	5.1
110°-120°	219.2	7.6
120°-130°	213.0	7.4
130°-140°	180.0	6.3
140°-150°	141.1	4.9
150°-160°	103.3	3.6
160°-170°	61.4	2.1
170°-180°	20.2	0.7
0°-30°	468.3	16.3
0°-40°	795.5	27.6
0°-60°	1403.6	48.8
0°-90°	1757.7	61.1
90°-120°	402.2	14.0
90°-150°	936.3	32.5
90°-180°	1121.0	38.9
0°-180°	2879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	515	512	518	520	521	49
15°	514	522	555	580	588	146
25°	500	522	579	613	623	230
35°	452	484	542	565	567	282
45°	372	403	448	450	444	286
55°	273	297	327	325	316	244
65°	176	191	209	209	205	175
75°	90	99	110	113	112	96
85°	23	29	38	44	46	25
90°	1	9	18	23	24	2
95°	12	13	20	39	45	16
105°	82	83	97	214	272	86
115°	152	153	172	301	397	146
125°	170	188	216	295	338	152
135°	186	201	229	262	286	143
145°	199	211	229	237	240	125
155°	206	212	225	235	238	95
165°	210	214	217	218	218	59
175°	210	210	212	210	208	20
180°	206	206	206	206	206	



TEST NUMBER: P183761

CATALOG NUMBER: I2-WS-1L40-1D-UNV-4-STD-DM5

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4
2.5°	515.2	512.8	510.4	510.4	510.4	516.4	514.0	512.8	510.4	510.4
5°	515.2	512.8	511.6	512.8	515.2	521.3	520.0	520.0	521.3	521.3
7.5°	516.4	514.0	512.8	516.4	521.3	529.7	530.9	533.3	534.5	535.7
10°	516.4	514.0	515.2	521.3	528.5	540.6	544.2	547.8	550.2	551.4
12.5°	515.2	514.0	517.6	526.1	536.9	552.6	558.7	564.7	568.3	569.5
15°	514.0	514.0	518.8	530.9	545.4	564.7	573.1	582.8	587.6	587.6
17.5°	512.8	512.8	521.3	535.7	553.8	575.5	587.6	597.3	603.3	604.5
20°	510.4	510.4	521.3	539.4	561.1	584.0	597.3	608.1	615.4	616.6
22.5°	505.6	508.0	520.0	540.6	564.7	588.8	603.3	614.2	621.4	623.8
25°	499.5	501.9	516.4	539.4	565.9	591.2	605.7	615.4	621.4	622.6
27.5°	491.1	494.7	510.4	535.7	563.5	588.8	602.1	610.5	615.4	617.8
30°	480.2	485.1	501.9	528.5	557.4	580.4	593.6	600.9	604.5	606.9
32.5°	467.0	471.8	491.1	517.6	546.6	567.1	579.2	585.2	586.4	588.8
35°	452.5	457.3	477.8	504.4	532.1	551.4	561.1	565.9	564.7	567.1
37.5°	435.6	440.4	460.9	487.5	514.0	532.1	539.4	540.6	538.1	539.4
40°	416.3	421.1	441.6	468.2	492.3	509.2	512.8	510.4	508.0	509.2
42.5°	394.6	400.6	419.9	445.2	469.4	481.4	485.1	481.4	476.6	477.8
45°	371.6	377.7	397.0	421.1	442.8	453.7	453.7	448.9	445.2	444.0
47.5°	347.5	353.5	371.6	395.8	413.9	423.5	423.5	418.7	412.7	412.7
50°	323.4	328.2	345.1	369.2	383.7	393.4	390.9	386.1	381.3	380.1
52.5°	296.8	304.1	318.5	341.5	354.7	362.0	360.8	355.9	349.9	348.7
55°	272.7	278.7	292.0	311.3	323.4	330.6	328.2	323.4	318.5	316.1
57.5°	247.4	253.4	266.7	282.3	294.4	300.4	298.0	293.2	289.6	287.2
60°	223.2	228.0	240.1	253.4	264.2	269.1	267.9	264.2	260.6	258.2
62.5°	199.1	203.9	213.6	225.6	235.3	240.1	238.9	236.5	232.9	231.7
65°	176.2	179.8	188.2	199.1	206.3	211.2	211.2	208.7	206.3	205.1
67.5°	153.2	156.9	164.1	173.8	179.8	184.6	185.8	183.4	181.0	179.8
70°	131.5	135.1	140.0	148.4	154.4	159.3	160.5	159.3	156.9	156.9
72.5°	111.0	113.4	118.2	124.3	131.5	133.9	135.1	135.1	135.1	133.9
75°	90.5	92.9	97.7	103.8	108.6	112.2	113.4	113.4	112.2	112.2
77.5°	71.2	74.8	77.2	83.3	88.1	90.5	92.9	92.9	92.9	92.9
80°	54.3	56.7	59.1	63.9	67.6	71.2	73.6	74.8	74.8	74.8
82.5°	38.6	41.0	42.2	47.1	50.7	54.3	56.7	59.1	59.1	59.1
85°	22.9	25.3	27.8	32.6	36.2	39.8	43.4	44.6	45.9	45.9
87.5°	9.7	13.3	15.7	20.5	25.3	29.0	31.4	32.6	33.8	33.8
90°	1.2	4.8	8.4	12.1	15.7	19.3	21.7	22.9	24.1	24.1
92.5°	4.8	6.0	7.2	9.7	13.3	16.9	20.5	21.7	24.1	24.1
95°	12.1	14.5	13.3	13.3	15.7	25.3	35.0	39.8	43.4	44.6
97.5°	25.3	26.5	26.5	25.3	27.8	39.8	62.7	76.0	84.5	85.7
100°	41.0	43.4	43.4	41.0	44.6	61.5	101.4	124.3	138.8	143.6
102.5°	61.5	62.7	63.9	59.1	62.7	86.9	140.0	178.6	200.3	206.3
105°	82.0	84.5	84.5	78.4	82.0	112.2	171.3	228.0	259.4	271.5
107.5°	102.6	105.0	103.8	96.5	100.1	137.6	195.5	266.7	308.9	321.0
110°	121.9	124.3	121.9	115.8	119.5	160.5	212.4	296.8	345.1	363.2



TEST NUMBER: P183761

CATALOG NUMBER: I2-WS-1L40-1D-UNV-4-STD-DM5

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	140.0	141.2	138.8	135.1	137.6	178.6	231.7	313.7	370.4	387.3
115°	152.0	155.7	153.2	152.0	154.4	189.4	249.8	318.5	378.9	397.0
117.5°	158.1	165.3	167.7	166.5	171.3	199.1	261.8	313.7	372.8	392.1
120°	160.5	170.1	178.6	179.8	184.6	207.5	265.5	312.5	354.7	372.8
122.5°	165.3	171.3	185.8	189.4	196.7	214.8	264.2	308.9	342.7	352.3
125°	170.1	172.5	185.8	195.5	206.3	225.6	263.0	305.3	331.8	337.8
127.5°	173.8	177.4	185.8	197.9	213.6	232.9	259.4	301.7	322.2	330.6
130°	177.4	181.0	189.4	201.5	216.0	236.5	258.2	290.8	318.5	325.8
132.5°	181.0	185.8	194.3	205.1	219.6	236.5	253.4	273.9	296.8	301.7
135°	185.8	190.6	197.9	208.7	222.0	236.5	253.4	265.5	278.7	286.0
137.5°	189.4	194.3	200.3	212.4	223.2	232.9	246.1	260.6	271.5	277.5
140°	193.1	197.9	203.9	214.8	224.4	231.7	238.9	246.1	254.6	260.6
142.5°	195.5	200.3	206.3	216.0	225.6	230.5	235.3	238.9	242.5	243.7
145°	199.1	202.7	208.7	216.0	226.8	231.7	235.3	237.7	240.1	240.1
147.5°	201.5	203.9	209.9	216.0	226.8	232.9	235.3	237.7	238.9	240.1
150°	202.7	205.1	209.9	216.0	225.6	232.9	235.3	237.7	237.7	238.9
152.5°	205.1	206.3	211.2	216.0	223.2	231.7	234.1	236.5	238.9	238.9
155°	206.3	207.5	211.2	214.8	220.8	229.3	232.9	235.3	236.5	237.7
157.5°	207.5	208.7	212.4	214.8	219.6	225.6	230.5	232.9	235.3	235.3
160°	208.7	209.9	212.4	214.8	218.4	220.8	224.4	228.0	230.5	230.5
162.5°	209.9	211.2	213.6	214.8	217.2	219.6	220.8	220.8	223.2	223.2
165°	209.9	211.2	213.6	214.8	216.0	218.4	218.4	218.4	218.4	218.4
167.5°	209.9	211.2	212.4	213.6	216.0	217.2	217.2	217.2	217.2	217.2
170°	211.2	211.2	212.4	213.6	214.8	216.0	214.8	214.8	214.8	214.8
172.5°	209.9	209.9	211.2	212.4	213.6	213.6	213.6	212.4	212.4	211.2
175°	209.9	209.9	209.9	209.9	211.2	212.4	211.2	209.9	208.7	207.5
177.5°	209.9	209.9	208.7	208.7	208.7	208.7	207.5	206.3	205.1	203.9
180°	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3

(END OF REPORT)