

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: P183756

Luminaire Tested: **I2-WS-1L35-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183756
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-1L35-1D-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)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

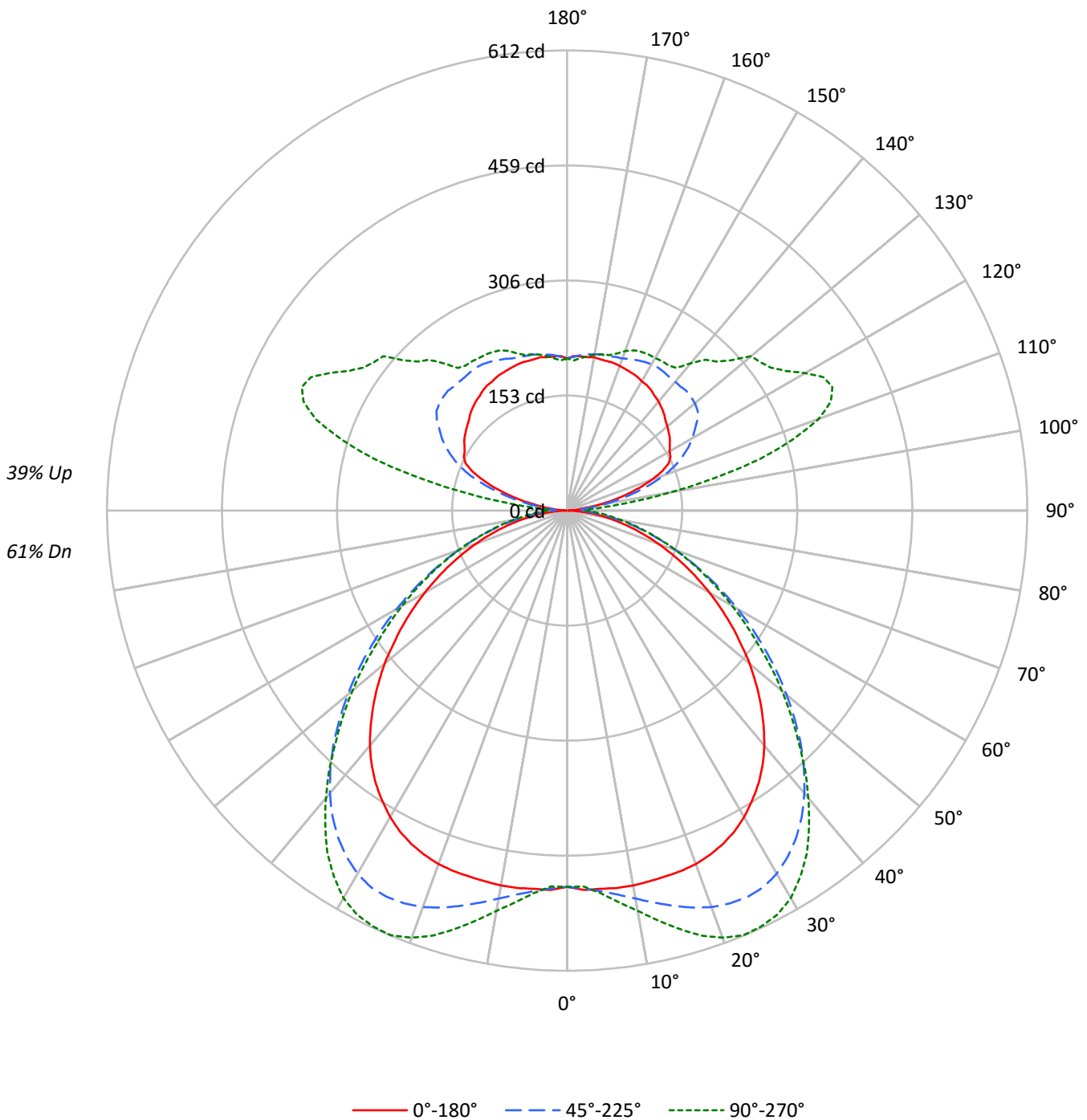
Lumens per Lamp: N/A
Luminaire Lumens: 2822.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Direct

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				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°	4008	4008	4008
5°	4040	3935	3918
10°	4076	3959	4004
15°	4114	4042	4158
20°	4176	4132	4286
25°	4213	4169	4284
30°	4212	4125	4166
35°	4167	3983	3914
40°	4068	3762	3560
45°	3900	3472	3170
50°	3695	3128	2794
55°	3447	2764	2413
60°	3185	2391	2067
65°	2911	2009	1740
70°	2603	1643	1426
75°	2256	1279	1108
80°	1846	906	815
85°	1242	575	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.7
10°-20°	153.7	5.4
20°-30°	256.5	9.1
30°-40°	320.7	11.4
40°-50°	322.8	11.4
50°-60°	273.2	9.7
60°-70°	195.1	6.9
70°-80°	110.9	3.9
80°-90°	41.1	1.5
90°-100°	35.7	1.3
100°-110°	143.7	5.1
110°-120°	214.9	7.6
120°-130°	208.8	7.4
130°-140°	176.4	6.3
140°-150°	138.3	4.9
150°-160°	101.3	3.6
160°-170°	60.2	2.1
170°-180°	19.8	0.7
0°-30°	459.1	16.3
0°-40°	779.7	27.6
0°-60°	1375.8	48.8
0°-90°	1723.0	61.1
90°-120°	394.3	14.0
90°-150°	917.8	32.5
90°-180°	1099.0	38.9
0°-180°	2822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	505	502	508	510	511	48
15°	504	512	544	569	576	143
25°	490	512	567	601	610	225
35°	444	475	531	554	556	277
45°	364	395	439	441	435	281
55°	267	291	321	318	310	239
65°	173	187	205	205	201	171
75°	89	97	108	111	110	94
85°	22	28	37	44	45	25
90°	1	9	17	22	24	2
95°	12	13	20	38	44	16
105°	80	81	95	210	266	85
115°	149	150	169	295	389	144
125°	167	184	212	289	331	149
135°	182	197	225	257	280	141
145°	195	206	225	232	235	122
155°	202	208	221	230	233	93
165°	206	210	213	214	214	58
175°	206	206	208	206	203	20
180°	202	202	202	202	202	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3	500.3
2.5°	505.0	502.7	500.3	500.3	500.3	506.2	503.8	502.7	500.3	500.3
5°	505.0	502.7	501.5	502.7	505.0	510.9	509.8	509.8	510.9	510.9
7.5°	506.2	503.8	502.7	506.2	510.9	519.2	520.4	522.8	523.9	525.1
10°	506.2	503.8	505.0	510.9	518.0	529.9	533.4	537.0	539.3	540.5
12.5°	505.0	503.8	507.4	515.7	526.3	541.7	547.6	553.5	557.1	558.2
15°	503.8	503.8	508.6	520.4	534.6	553.5	561.8	571.3	576.0	576.0
17.5°	502.7	502.7	510.9	525.1	542.9	564.2	576.0	585.4	591.4	592.5
20°	500.3	500.3	510.9	528.7	550.0	572.4	585.4	596.1	603.2	604.4
22.5°	495.6	497.9	509.8	529.9	553.5	577.2	591.4	602.0	609.1	611.5
25°	489.6	492.0	506.2	528.7	554.7	579.5	593.7	603.2	609.1	610.3
27.5°	481.4	484.9	500.3	525.1	552.3	577.2	590.2	598.5	603.2	605.6
30°	470.7	475.5	492.0	518.0	546.4	568.9	581.9	589.0	592.5	594.9
32.5°	457.7	462.4	481.4	507.4	535.8	555.9	567.7	573.6	574.8	577.2
35°	443.5	448.3	468.4	494.4	521.6	540.5	550.0	554.7	553.5	555.9
37.5°	427.0	431.7	451.8	477.8	503.8	521.6	528.7	529.9	527.5	528.7
40°	408.0	412.8	432.9	458.9	482.5	499.1	502.7	500.3	497.9	499.1
42.5°	386.7	392.7	411.6	436.4	460.1	471.9	475.5	471.9	467.2	468.4
45°	364.3	370.2	389.1	412.8	434.1	444.7	444.7	440.0	436.4	435.2
47.5°	340.6	346.5	364.3	387.9	405.7	415.1	415.1	410.4	404.5	404.5
50°	317.0	321.7	338.3	361.9	376.1	385.6	383.2	378.5	373.7	372.6
52.5°	290.9	298.0	312.2	334.7	347.7	354.8	353.6	348.9	343.0	341.8
55°	267.3	273.2	286.2	305.1	317.0	324.1	321.7	317.0	312.2	309.9
57.5°	242.5	248.4	261.4	276.8	288.6	294.5	292.1	287.4	283.9	281.5
60°	218.8	223.5	235.4	248.4	259.0	263.7	262.6	259.0	255.5	253.1
62.5°	195.1	199.9	209.3	221.2	230.6	235.4	234.2	231.8	228.3	227.1
65°	172.7	176.2	184.5	195.1	202.2	207.0	207.0	204.6	202.2	201.1
67.5°	150.2	153.8	160.8	170.3	176.2	181.0	182.1	179.8	177.4	176.2
70°	128.9	132.5	137.2	145.5	151.4	156.1	157.3	156.1	153.8	153.8
72.5°	108.8	111.2	115.9	121.8	128.9	131.3	132.5	132.5	132.5	131.3
75°	88.7	91.1	95.8	101.7	106.4	110.0	111.2	111.2	110.0	110.0
77.5°	69.8	73.3	75.7	81.6	86.3	88.7	91.1	91.1	91.1	91.1
80°	53.2	55.6	58.0	62.7	66.2	69.8	72.1	73.3	73.3	73.3
82.5°	37.8	40.2	41.4	46.1	49.7	53.2	55.6	58.0	58.0	58.0
85°	22.5	24.8	27.2	31.9	35.5	39.0	42.6	43.8	44.9	44.9
87.5°	9.5	13.0	15.4	20.1	24.8	28.4	30.8	31.9	33.1	33.1
90°	1.2	4.7	8.3	11.8	15.4	18.9	21.3	22.5	23.7	23.7
92.5°	4.7	5.9	7.1	9.5	13.0	16.6	20.1	21.3	23.7	23.7
95°	11.8	14.2	13.0	13.0	15.4	24.8	34.3	39.0	42.6	43.8
97.5°	24.8	26.0	26.0	24.8	27.2	39.0	61.5	74.5	82.8	84.0
100°	40.2	42.6	42.6	40.2	43.8	60.3	99.3	121.8	136.0	140.7
102.5°	60.3	61.5	62.7	58.0	61.5	85.2	137.2	175.0	196.3	202.2
105°	80.4	82.8	82.8	76.9	80.4	110.0	167.9	223.5	254.3	266.1
107.5°	100.5	102.9	101.7	94.6	98.2	134.8	191.6	261.4	302.8	314.6
110°	119.5	121.8	119.5	113.5	117.1	157.3	208.2	290.9	338.3	356.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	137.2	138.4	136.0	132.5	134.8	175.0	227.1	307.5	363.1	379.7
115°	149.0	152.6	150.2	149.0	151.4	185.7	244.8	312.2	371.4	389.1
117.5°	154.9	162.0	164.4	163.2	167.9	195.1	256.7	307.5	365.5	384.4
120°	157.3	166.8	175.0	176.2	181.0	203.4	260.2	306.3	347.7	365.5
122.5°	162.0	167.9	182.1	185.7	192.8	210.5	259.0	302.8	335.9	345.4
125°	166.8	169.1	182.1	191.6	202.2	221.2	257.8	299.2	325.2	331.2
127.5°	170.3	173.9	182.1	194.0	209.3	228.3	254.3	295.7	315.8	324.1
130°	173.9	177.4	185.7	197.5	211.7	231.8	253.1	285.0	312.2	319.3
132.5°	177.4	182.1	190.4	201.1	215.3	231.8	248.4	268.5	290.9	295.7
135°	182.1	186.9	194.0	204.6	217.6	231.8	248.4	260.2	273.2	280.3
137.5°	185.7	190.4	196.3	208.2	218.8	228.3	241.3	255.5	266.1	272.0
140°	189.2	194.0	199.9	210.5	220.0	227.1	234.2	241.3	249.6	255.5
142.5°	191.6	196.3	202.2	211.7	221.2	225.9	230.6	234.2	237.7	238.9
145°	195.1	198.7	204.6	211.7	222.4	227.1	230.6	233.0	235.4	235.4
147.5°	197.5	199.9	205.8	211.7	222.4	228.3	230.6	233.0	234.2	235.4
150°	198.7	201.1	205.8	211.7	221.2	228.3	230.6	233.0	233.0	234.2
152.5°	201.1	202.2	207.0	211.7	218.8	227.1	229.4	231.8	234.2	234.2
155°	202.2	203.4	207.0	210.5	216.4	224.7	228.3	230.6	231.8	233.0
157.5°	203.4	204.6	208.2	210.5	215.3	221.2	225.9	228.3	230.6	230.6
160°	204.6	205.8	208.2	210.5	214.1	216.4	220.0	223.5	225.9	225.9
162.5°	205.8	207.0	209.3	210.5	212.9	215.3	216.4	216.4	218.8	218.8
165°	205.8	207.0	209.3	210.5	211.7	214.1	214.1	214.1	214.1	214.1
167.5°	205.8	207.0	208.2	209.3	211.7	212.9	212.9	212.9	212.9	212.9
170°	207.0	207.0	208.2	209.3	210.5	211.7	210.5	210.5	210.5	210.5
172.5°	205.8	205.8	207.0	208.2	209.3	209.3	209.3	208.2	208.2	207.0
175°	205.8	205.8	205.8	205.8	207.0	208.2	207.0	205.8	204.6	203.4
177.5°	205.8	205.8	204.6	204.6	204.6	204.6	203.4	202.2	201.1	199.9
180°	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2	202.2

(END OF REPORT)