

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: P183728

Luminaire Tested: **I2-WS-3L35-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27048)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I2-WS-3L35-1D-UNV-4-STD-DM8  
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.  
WaveStream WITH FROSTED LENS. 70% UP / 30% DOWN.  
Light Source: (336)3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4739.3 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: Semi-Indirect

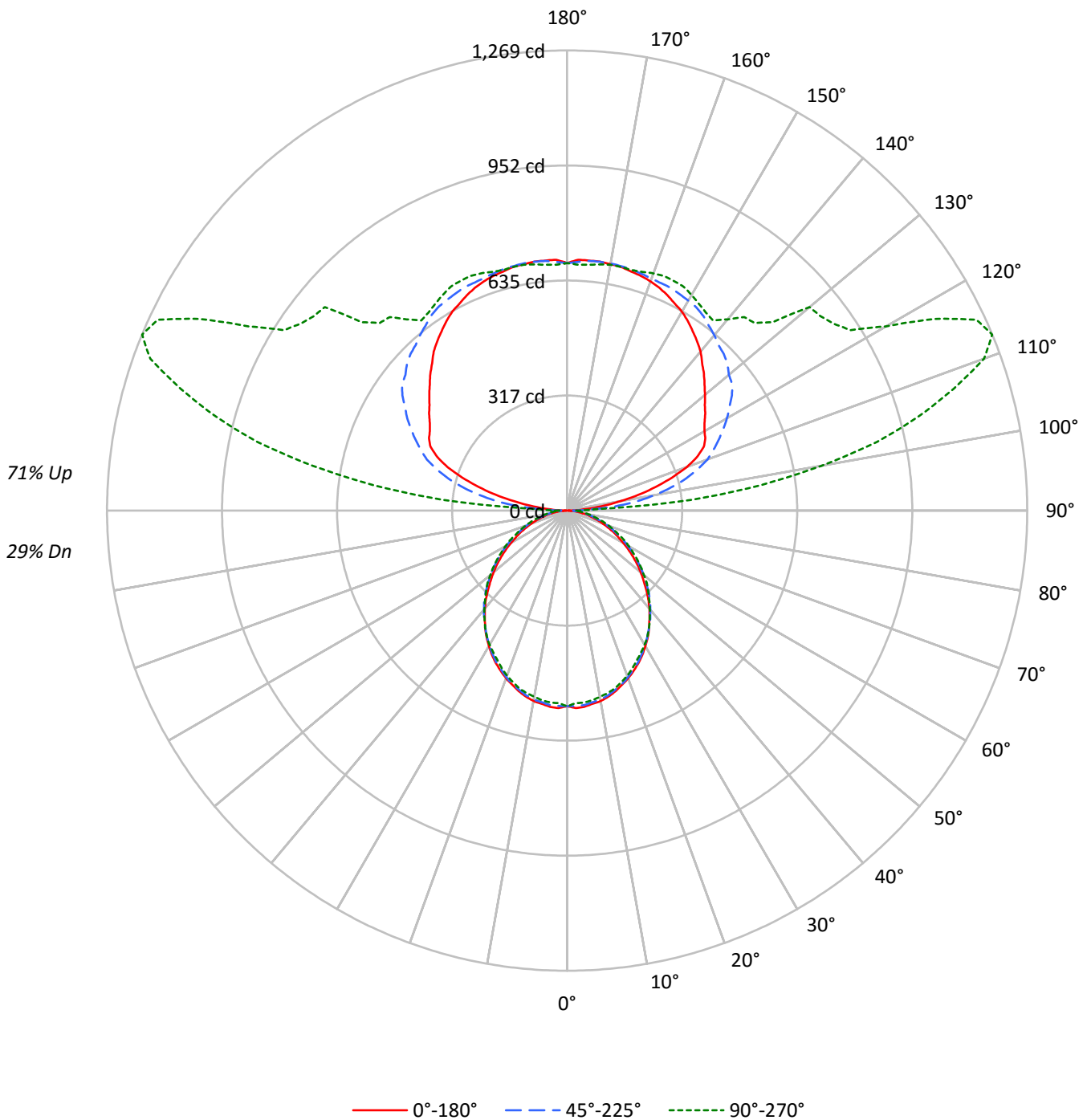
Input Watts (W): 46.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	93	89	85	82	83	80	77	74	63	60	59	47	46	44	32	32	31	24
2	85	78	72	67	76	70	65	60	55	51	48	41	39	37	29	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	34	31	25	24	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	23	21	19	15
5	65	53	46	40	58	48	41	36	38	33	30	29	26	23	20	18	17	13
6	59	48	40	34	53	43	36	32	34	29	26	26	23	20	18	16	15	11
7	55	43	35	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4320	4320	4320
5°	4346	4170	4075
10°	4295	4000	3864
15°	4211	3802	3666
20°	4109	3602	3435
25°	3999	3395	3193
30°	3861	3176	2994
35°	3703	2949	2775
40°	3520	2736	2531
45°	3296	2510	2299
50°	3085	2255	2073
55°	2858	2012	1832
60°	2597	1758	1601
65°	2380	1492	1357
70°	2098	1247	1145
75°	1846	973	908
80°	1495	718	676
85°	1082	484	490



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.9	1.1
10°-20°	143.9	3.0
20°-30°	211.7	4.5
30°-40°	245.9	5.2
40°-50°	242.4	5.1
50°-60°	206.8	4.4
60°-70°	150.7	3.2
70°-80°	88.0	1.9
80°-90°	34.9	0.7
90°-100°	186.4	3.9
100°-110°	525.8	11.1
110°-120°	632.5	13.3
120°-130°	562.1	11.9
130°-140°	482.4	10.2
140°-150°	403.4	8.5
150°-160°	311.6	6.6
160°-170°	194.2	4.1
170°-180°	65.7	1.4
0°-30°	406.5	8.6
0°-40°	652.4	13.8
0°-60°	1101.7	23.2
0°-90°	1375.2	29.0
90°-120°	1344.7	28.4
90°-150°	2792.6	58.9
90°-180°	3364.0	71.0
0°-180°	4739.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	543	537	538	536	531	51
15°	516	511	512	510	508	145
25°	465	460	462	457	455	214
35°	394	390	393	396	394	246
45°	308	310	318	316	316	238
55°	222	227	233	235	235	198
65°	141	148	152	156	157	139
75°	73	78	82	88	90	77
85°	20	26	31	37	39	20
90°	2	10	17	21	22	5
95°	59	71	132	297	345	67
105°	253	260	338	806	1004	266
115°	416	416	461	892	1245	403
125°	465	500	555	778	898	416
135°	533	557	611	680	731	412
145°	604	617	655	662	667	379
155°	655	654	678	691	698	302
165°	682	682	688	685	686	193
175°	692	690	691	687	680	66
180°	682	682	682	682	682	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	539.3	539.3	539.3	539.3	539.3	539.3	539.3	539.3	539.3	539.3
2.5°	545.1	541.2	539.3	537.3	537.3	541.2	539.3	537.3	533.4	531.4
5°	543.2	539.3	537.3	535.3	537.3	539.3	537.3	535.3	533.4	531.4
7.5°	537.3	535.3	531.4	531.4	531.4	535.3	531.4	531.4	529.5	527.5
10°	533.4	529.5	527.5	527.5	527.5	531.4	527.5	525.5	523.6	521.6
12.5°	525.5	521.6	519.6	519.6	519.6	523.6	519.6	517.7	515.7	515.7
15°	515.7	513.8	511.8	509.8	509.8	513.8	511.8	509.8	507.9	507.9
17.5°	504.0	502.0	500.0	500.0	500.0	504.0	500.0	498.1	496.1	496.1
20°	492.2	490.2	488.3	488.3	488.3	490.2	488.3	486.3	484.4	484.4
22.5°	478.5	476.5	474.5	474.5	474.5	476.5	474.5	470.6	470.6	470.6
25°	464.7	462.8	460.8	458.9	460.8	462.8	458.9	456.9	454.9	454.9
27.5°	449.1	447.1	445.1	443.2	445.1	447.1	445.1	441.2	441.2	441.2
30°	431.4	429.4	427.5	427.5	429.4	429.4	427.5	427.5	427.5	427.5
32.5°	413.8	411.8	409.8	409.8	411.8	411.8	413.8	413.8	411.8	411.8
35°	394.1	392.2	390.2	390.2	392.2	394.1	396.1	396.1	396.1	394.1
37.5°	372.6	372.6	370.6	370.6	374.5	378.5	378.5	376.5	376.5	374.5
40°	353.0	351.0	351.0	351.0	354.9	358.9	358.9	356.9	354.9	354.9
42.5°	331.4	331.4	331.4	331.4	337.3	339.2	337.3	337.3	335.3	335.3
45°	307.9	309.8	309.8	309.8	317.7	317.7	317.7	315.7	317.7	315.7
47.5°	286.3	288.3	288.3	292.2	296.1	296.1	296.1	298.1	298.1	298.1
50°	264.7	266.7	266.7	272.6	274.5	274.5	276.5	276.5	276.5	276.5
52.5°	243.2	243.2	245.1	251.0	253.0	254.9	254.9	256.9	256.9	256.9
55°	221.6	223.5	225.5	231.4	231.4	235.3	235.3	235.3	237.3	235.3
57.5°	200.0	202.0	203.9	207.9	211.8	213.7	213.7	215.7	215.7	215.7
60°	178.4	182.4	186.3	188.2	192.2	192.2	194.1	196.1	196.1	196.1
62.5°	158.8	162.8	166.7	168.6	170.6	172.6	174.5	176.5	178.4	178.4
65°	141.2	143.1	147.1	149.0	151.0	153.0	154.9	156.9	158.8	156.9
67.5°	121.6	125.5	129.4	131.4	133.3	135.3	137.3	139.2	139.2	139.2
70°	103.9	107.9	111.8	113.7	115.7	117.7	119.6	121.6	121.6	123.5
72.5°	88.2	92.2	94.1	96.1	98.0	100.0	102.0	103.9	105.9	105.9
75°	72.6	76.5	78.4	78.4	80.4	84.3	86.3	88.2	88.2	90.2
77.5°	56.9	60.8	62.7	64.7	66.7	68.6	70.6	72.6	74.5	74.5
80°	43.1	47.1	49.0	51.0	52.9	54.9	56.9	58.8	60.8	60.8
82.5°	29.4	35.3	35.3	37.3	39.2	43.1	45.1	47.1	49.0	49.0
85°	19.6	23.5	25.5	27.5	29.4	33.3	35.3	37.3	39.2	39.2
87.5°	7.8	13.7	15.7	17.6	21.6	23.5	25.5	27.5	29.4	29.4
90°	2.0	7.8	9.8	11.8	15.7	17.6	19.6	21.6	21.6	21.6
92.5°	25.5	29.4	29.4	33.3	41.2	62.7	78.4	82.4	80.4	74.5
95°	58.8	66.7	70.6	72.6	96.1	168.6	256.9	309.8	337.3	345.1
97.5°	102.0	111.8	117.7	113.7	145.1	241.2	380.4	474.5	525.5	539.3
100°	149.0	158.8	166.7	156.9	190.2	298.1	492.2	613.8	690.2	711.8
102.5°	202.0	211.8	217.7	200.0	233.4	353.0	586.3	741.2	837.3	874.6
105°	253.0	262.8	266.7	241.2	270.6	405.9	655.0	856.9	970.7	1004.0
107.5°	303.9	309.8	309.8	284.3	303.9	449.1	694.2	949.1	1082.4	1117.7
110°	351.0	353.0	351.0	327.5	339.2	484.4	696.1	1007.9	1168.7	1223.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	388.3	392.2	384.3	368.7	368.7	504.0	696.1	1007.9	1206.0	1268.7
115°	415.7	425.5	417.7	409.8	405.9	515.7	707.9	953.0	1170.7	1245.2
117.5°	429.4	449.1	451.0	443.2	443.2	527.5	711.8	876.5	1072.6	1145.2
120°	437.3	460.8	482.4	474.5	478.5	539.3	700.1	831.4	962.8	1015.8
122.5°	449.1	460.8	498.1	496.1	509.8	551.0	688.3	811.8	904.0	925.6
125°	464.7	466.7	496.1	509.8	531.4	578.5	686.3	807.9	878.5	898.1
127.5°	478.5	482.4	500.0	519.6	549.1	598.1	672.6	796.1	853.0	880.5
130°	496.1	500.0	513.8	535.3	560.8	604.0	662.8	758.9	847.1	872.6
132.5°	513.8	519.6	533.4	556.9	580.4	617.7	649.1	694.2	756.9	768.7
135°	533.4	539.3	551.0	574.6	598.1	623.6	660.8	686.3	717.7	731.4
137.5°	551.0	556.9	566.7	588.3	611.8	625.5	655.0	686.3	709.9	723.6
140°	572.6	576.5	586.3	604.0	627.5	635.3	647.1	660.8	678.5	688.3
142.5°	588.3	592.2	600.0	615.7	637.3	647.1	651.0	655.0	660.8	660.8
145°	604.0	605.9	613.8	625.5	649.1	660.8	660.8	662.8	666.7	666.7
147.5°	619.7	619.7	625.5	635.3	656.9	670.6	674.6	672.6	674.6	676.5
150°	633.4	631.4	635.3	645.1	662.8	674.6	682.4	684.4	684.4	686.3
152.5°	643.2	643.2	643.2	651.0	666.7	678.5	684.4	690.2	694.2	696.1
155°	655.0	653.0	653.0	656.9	670.6	684.4	688.3	692.2	696.1	698.1
157.5°	664.8	664.8	662.8	664.8	672.6	684.4	692.2	694.2	698.1	700.1
160°	672.6	670.6	670.6	670.6	676.5	684.4	688.3	692.2	696.1	696.1
162.5°	678.5	678.5	676.5	676.5	682.4	686.3	684.4	684.4	688.3	690.2
165°	682.4	684.4	682.4	682.4	686.3	690.2	688.3	684.4	684.4	686.3
167.5°	688.3	688.3	688.3	686.3	688.3	692.2	690.2	688.3	688.3	688.3
170°	690.2	690.2	690.2	690.2	690.2	694.2	690.2	688.3	688.3	688.3
172.5°	692.2	690.2	690.2	690.2	690.2	694.2	690.2	686.3	684.4	684.4
175°	692.2	692.2	690.2	690.2	690.2	692.2	688.3	686.3	682.4	680.4
177.5°	692.2	690.2	688.3	684.4	684.4	688.3	684.4	680.4	678.5	678.5
180°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4

(END OF REPORT)