

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: P183741

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183741  
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-1L35-1D-UNV-4-STD  
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.  
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.  
Light Source: (336)3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

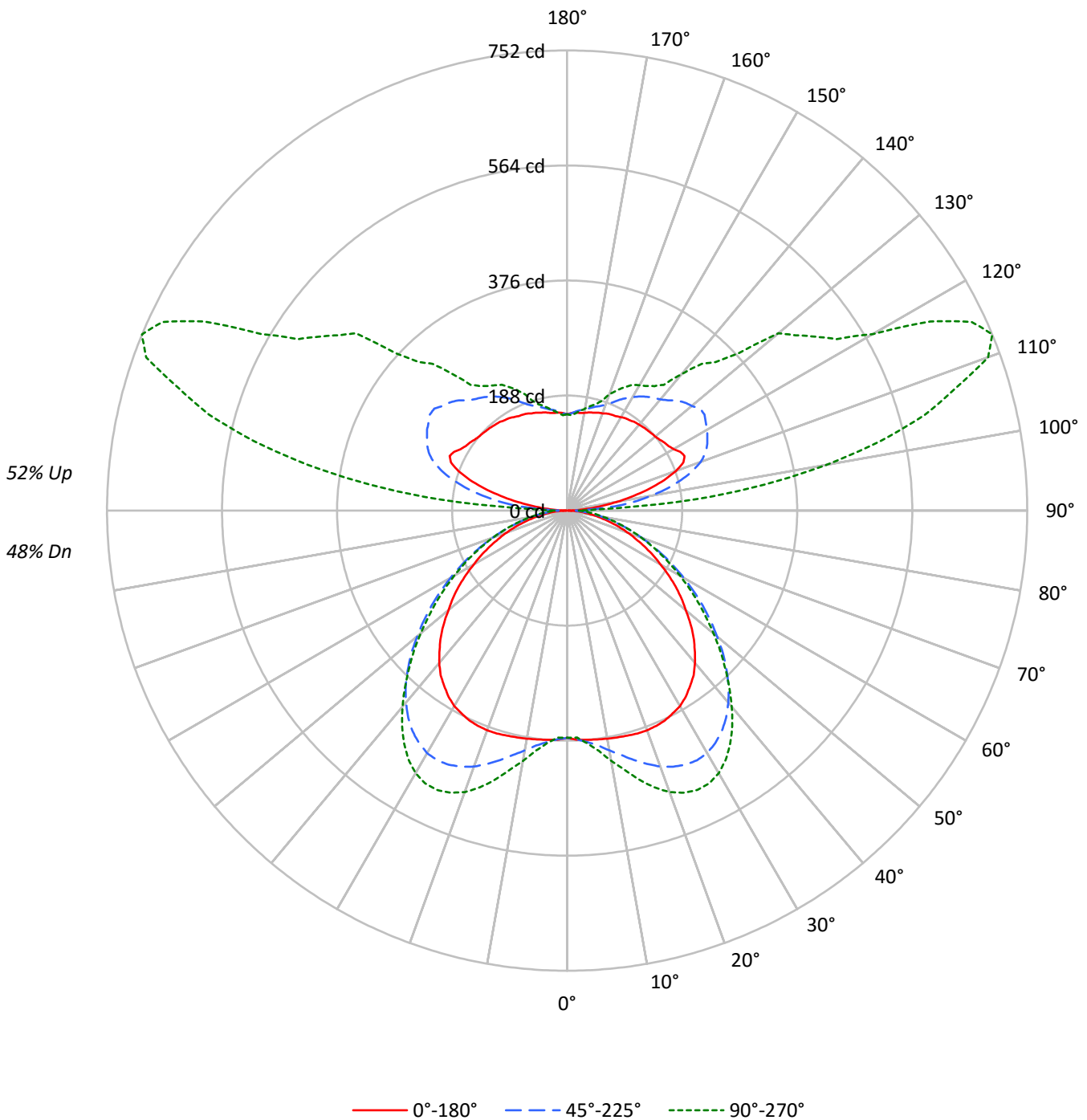
Lumens per Lamp: N/A  
Luminaire Lumens: 2962.7 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.69 / 1.63  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				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°	2974	2974	2974
5°	3008	2941	2929
10°	3047	3007	3075
15°	3110	3136	3287
20°	3189	3278	3472
25°	3256	3368	3537
30°	3301	3385	3470
35°	3289	3304	3272
40°	3242	3141	2986
45°	3127	2910	2661
50°	2950	2627	2341
55°	2791	2330	2035
60°	2565	2012	1738
65°	2351	1701	1463
70°	2125	1384	1195
75°	1834	1069	929
80°	1520	764	670
85°	1110	484	459



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.7	1.2
10°-20°	119.4	4.0
20°-30°	206.6	7.0
30°-40°	264.1	8.9
40°-50°	268.2	9.1
50°-60°	227.4	7.7
60°-70°	162.8	5.5
70°-80°	92.5	3.1
80°-90°	34.6	1.2
90°-100°	110.3	3.7
100°-110°	306.4	10.3
110°-120°	354.2	12.0
120°-130°	281.3	9.5
130°-140°	202.5	6.8
140°-150°	138.8	4.7
150°-160°	91.8	3.1
160°-170°	49.8	1.7
170°-180°	15.6	0.5
0°-30°	362.6	12.2
0°-40°	626.8	21.2
0°-60°	1122.3	37.9
0°-90°	1412.2	47.7
90°-120°	770.8	26.0
90°-150°	1393.4	47.0
90°-180°	1551.0	52.4
0°-180°	2962.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	371	371	371	371	371	
5°	376	374	380	382	382	36
15°	381	391	422	447	455	108
25°	378	403	458	493	504	174
35°	350	383	440	464	465	219
45°	292	323	368	372	365	224
55°	216	240	270	267	261	193
65°	140	155	173	172	169	139
75°	72	81	90	92	92	77
85°	20	25	31	36	37	21
90°	1	9	14	19	19	3
95°	32	40	77	176	210	37
105°	141	145	193	478	606	146
115°	212	218	252	517	730	204
125°	194	226	274	417	496	174
135°	186	207	254	310	343	144
145°	180	195	227	242	248	113
155°	173	178	199	216	222	80
165°	166	168	176	179	180	47
175°	161	161	163	162	160	15
180°	157	157	157	157	157	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3
2.5°	374.9	373.7	371.3	371.3	372.5	376.0	374.9	373.7	372.5	371.3
5°	376.0	373.7	373.7	374.9	377.2	382.0	382.0	382.0	382.0	382.0
7.5°	377.2	376.0	376.0	379.6	383.1	391.4	392.6	395.0	396.1	396.1
10°	378.4	377.2	379.6	385.5	392.6	403.2	408.0	411.5	413.9	415.1
12.5°	379.6	379.6	383.1	391.4	402.1	416.2	423.3	429.3	432.8	434.0
15°	380.8	382.0	387.9	399.7	413.9	430.4	441.1	449.4	454.1	455.3
17.5°	382.0	383.1	391.4	405.6	423.3	444.6	456.5	467.1	473.0	474.2
20°	382.0	384.3	395.0	412.7	434.0	456.5	470.6	481.3	487.2	489.6
22.5°	380.8	383.1	396.1	417.4	441.1	464.7	480.1	490.7	497.8	499.0
25°	378.4	382.0	397.3	419.8	445.8	470.6	486.0	495.5	501.4	503.8
27.5°	373.7	378.4	395.0	419.8	448.2	471.8	487.2	495.5	500.2	502.6
30°	368.9	373.7	391.4	417.4	445.8	469.5	482.5	490.7	494.3	495.5
32.5°	360.7	366.6	384.3	411.5	439.9	461.2	474.2	480.1	482.5	482.5
35°	350.0	355.9	376.0	403.2	430.4	450.5	461.2	464.7	464.7	464.7
37.5°	339.4	345.3	364.2	391.4	417.4	436.3	444.6	445.8	444.6	443.4
40°	325.2	331.1	350.0	377.2	402.1	417.4	423.3	422.2	419.8	418.6
42.5°	308.6	314.6	334.7	359.5	384.3	397.3	399.7	397.3	393.8	392.6
45°	292.1	298.0	316.9	341.7	363.0	373.7	374.9	371.3	366.6	365.4
47.5°	273.2	279.1	296.8	321.6	340.6	350.0	348.8	345.3	340.6	339.4
50°	253.1	260.2	276.7	300.4	315.7	324.0	322.8	318.1	313.4	312.2
52.5°	235.3	241.2	256.6	277.9	292.1	298.0	296.8	292.1	287.4	286.2
55°	216.4	221.1	235.3	254.2	267.2	273.2	270.8	266.1	261.3	261.3
57.5°	196.3	201.0	214.0	230.6	242.4	247.1	244.8	241.2	237.7	236.5
60°	176.2	182.1	193.9	208.1	218.8	221.1	219.9	216.4	214.0	212.9
62.5°	158.5	163.2	173.8	185.7	193.9	198.7	196.3	193.9	190.4	190.4
65°	139.5	144.3	152.5	163.2	171.5	175.0	173.8	171.5	169.1	169.1
67.5°	121.8	125.3	133.6	143.1	149.0	152.5	151.4	150.2	147.8	147.8
70°	105.2	107.6	114.7	121.8	127.7	131.3	131.3	130.1	128.9	128.9
72.5°	88.7	91.1	97.0	102.9	107.6	111.2	112.3	110.0	110.0	110.0
75°	72.1	75.7	79.2	85.1	88.7	92.2	93.4	92.2	92.2	92.2
77.5°	57.9	60.3	63.9	68.6	71.0	74.5	75.7	75.7	75.7	75.7
80°	43.8	46.1	49.7	52.0	55.6	59.1	60.3	60.3	61.5	60.3
82.5°	31.9	33.1	35.5	39.0	41.4	44.9	47.3	47.3	48.5	48.5
85°	20.1	21.3	23.7	27.2	29.6	33.1	35.5	36.7	36.7	36.7
87.5°	8.3	11.8	14.2	17.7	20.1	23.7	26.0	27.2	27.2	27.2
90°	1.2	5.9	8.3	10.6	13.0	15.4	17.7	18.9	18.9	18.9
92.5°	13.0	16.6	17.7	20.1	26.0	36.7	47.3	49.7	52.0	52.0
95°	31.9	37.8	40.2	41.4	55.6	98.1	150.2	184.5	202.2	210.5
97.5°	56.8	62.7	66.2	63.9	81.6	138.4	223.5	280.3	314.6	325.2
100°	82.8	89.9	93.4	87.5	107.6	172.6	289.7	363.0	411.5	430.4
102.5°	111.2	118.3	121.8	111.2	130.1	204.6	344.1	439.9	499.0	523.9
105°	140.7	145.4	149.0	134.8	151.4	234.1	387.9	508.5	578.3	605.5
107.5°	166.7	170.3	172.6	158.5	170.3	259.0	408.0	562.9	645.7	665.8
110°	189.2	192.8	192.8	180.9	188.0	276.7	408.0	597.2	695.3	732.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	205.8	210.5	208.1	201.0	202.2	286.2	404.4	594.8	716.6	752.1
115°	211.7	219.9	218.8	217.6	218.8	286.2	404.4	554.6	688.2	729.6
117.5°	208.1	222.3	229.4	228.2	231.8	285.0	399.7	501.4	619.6	669.3
120°	201.0	218.8	236.5	237.7	243.6	285.0	385.5	469.5	545.1	577.1
122.5°	196.3	205.8	234.1	240.1	253.1	283.8	371.3	447.0	504.9	521.5
125°	193.9	197.5	221.1	238.9	256.6	290.9	360.7	435.2	482.5	495.5
127.5°	190.4	193.9	210.5	231.8	255.4	292.1	340.6	418.6	456.5	470.6
130°	188.0	192.8	205.8	225.9	249.5	282.6	324.0	384.3	437.5	450.5
132.5°	186.8	191.6	204.6	224.7	247.1	275.5	302.7	334.7	374.9	380.8
135°	185.7	190.4	202.2	221.1	242.4	266.1	294.4	315.7	335.8	342.9
137.5°	184.5	189.2	198.7	217.6	236.5	251.9	276.7	301.5	319.3	325.2
140°	183.3	186.8	197.5	214.0	231.8	242.4	255.4	269.6	282.6	290.9
142.5°	182.1	185.7	193.9	209.3	227.0	237.7	244.8	251.9	256.6	259.0
145°	179.7	183.3	191.6	204.6	221.1	233.0	238.9	243.6	247.1	248.3
147.5°	178.6	179.7	186.8	198.7	215.2	227.0	234.1	237.7	240.1	241.2
150°	176.2	177.4	183.3	193.9	208.1	219.9	228.2	234.1	235.3	236.5
152.5°	173.8	175.0	179.7	188.0	201.0	212.9	219.9	227.0	230.6	231.8
155°	172.6	172.6	176.2	183.3	193.9	204.6	211.7	217.6	221.1	222.3
157.5°	171.5	171.5	173.8	179.7	186.8	195.1	203.4	208.1	211.7	212.9
160°	169.1	169.1	171.5	176.2	180.9	186.8	192.8	198.7	202.2	202.2
162.5°	167.9	167.9	169.1	172.6	177.4	180.9	183.3	185.7	188.0	188.0
165°	165.6	166.7	167.9	170.3	173.8	177.4	178.6	179.7	179.7	179.7
167.5°	164.4	165.6	166.7	167.9	170.3	172.6	173.8	175.0	175.0	175.0
170°	162.0	163.2	164.4	166.7	166.7	169.1	169.1	170.3	170.3	169.1
172.5°	160.8	162.0	163.2	164.4	165.6	165.6	165.6	165.6	164.4	164.4
175°	160.8	160.8	160.8	162.0	162.0	163.2	163.2	162.0	160.8	159.6
177.5°	159.6	159.6	159.6	159.6	158.5	159.6	158.5	158.5	157.3	156.1
180°	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3	157.3

(END OF REPORT)