

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: P183742

Luminaire Tested: **I2-WS-2L35-1D-UNV-4-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183742
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-2L35-1D-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: 3697.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

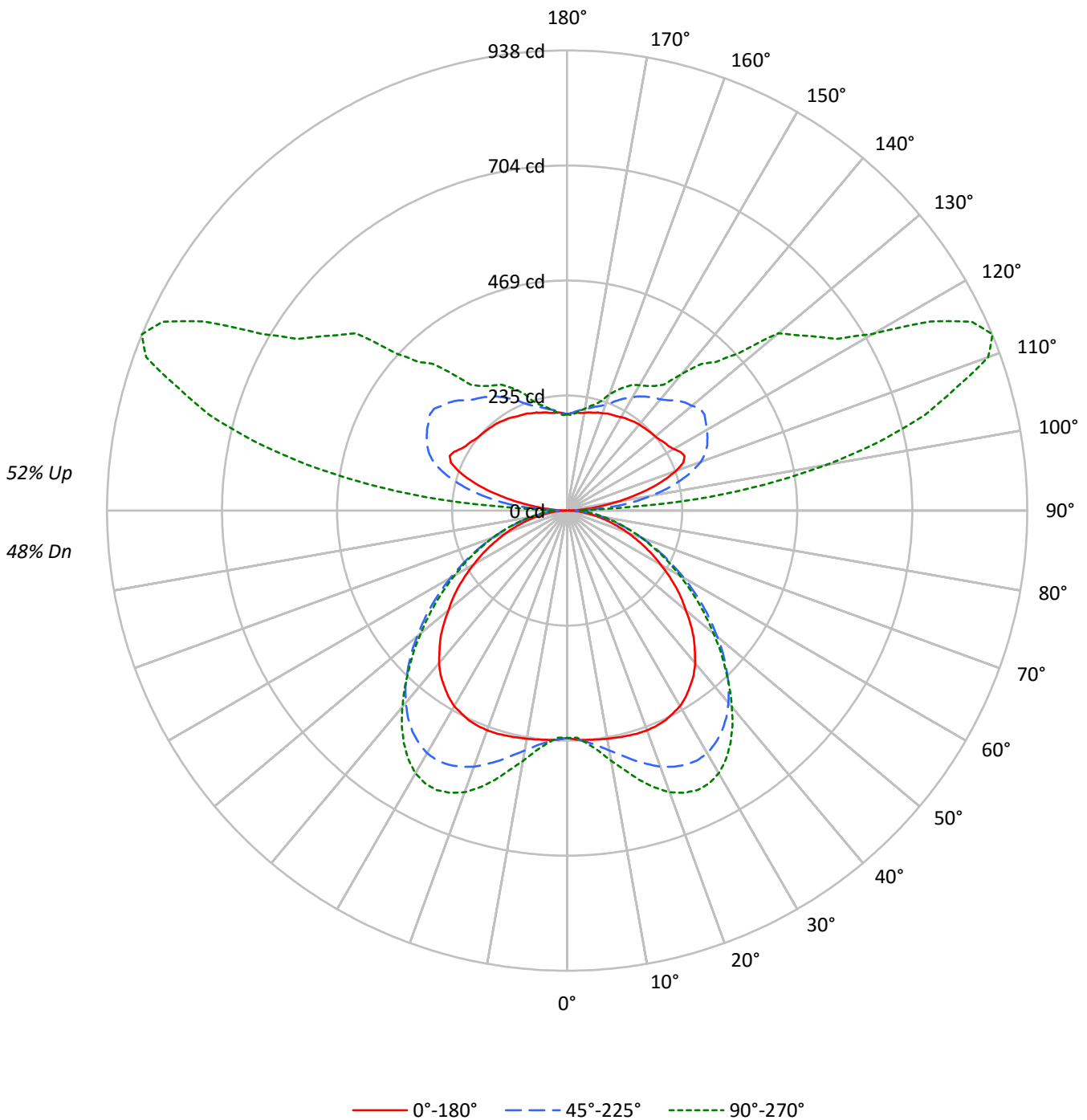
Input Watts (W): 35.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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						40														
2	88	81	75	69	81	74	69	64	63	59	55	52	49	46	42	40	38	33						33														
3	80	71	63	57	74	65	59	54	55	50	46	45	42	39	37	34	32	28						28														
4	73	62	54	48	67	58	51	45	49	43	39	40	36	33	33	30	27	24						24														
5	67	56	47	41	62	51	44	39	43	38	34	36	32	29	29	26	24	20						20														
6	62	50	41	36	57	46	39	33	39	33	29	32	28	25	26	23	21	18						18														
7	57	45	37	31	52	41	34	29	35	30	25	29	25	22	24	21	18	16						16														
8	53	40	33	27	48	38	31	26	32	26	22	27	22	19	22	19	16	14						14														
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	20	17	15	12						12														
10	46	34	26	22	42	31	25	20	27	22	18	23	18	15	19	15	13	11						11														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3711	3711	3711
5°	3754	3669	3655
10°	3802	3752	3837
15°	3880	3914	4101
20°	3979	4090	4332
25°	4063	4203	4413
30°	4120	4224	4330
35°	4104	4123	4083
40°	4046	3920	3726
45°	3902	3631	3321
50°	3681	3279	2921
55°	3482	2908	2540
60°	3201	2510	2169
65°	2934	2123	1825
70°	2652	1727	1491
75°	2289	1334	1159
80°	1894	954	837
85°	1386	603	572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	1.2
10°-20°	148.9	4.0
20°-30°	257.8	7.0
30°-40°	329.6	8.9
40°-50°	334.7	9.1
50°-60°	283.8	7.7
60°-70°	203.1	5.5
70°-80°	115.5	3.1
80°-90°	43.1	1.2
90°-100°	137.6	3.7
100°-110°	382.3	10.3
110°-120°	442.0	12.0
120°-130°	351.0	9.5
130°-140°	252.7	6.8
140°-150°	173.2	4.7
150°-160°	114.5	3.1
160°-170°	62.1	1.7
170°-180°	19.5	0.5
0°-30°	452.5	12.2
0°-40°	782.1	21.2
0°-60°	1400.5	37.9
0°-90°	1762.2	47.7
90°-120°	961.8	26.0
90°-150°	1738.7	47.0
90°-180°	1935.0	52.3
0°-180°	3697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	463	463	463	463	463	
5°	469	467	474	477	477	45
15°	475	488	527	558	568	135
25°	472	503	572	615	629	218
35°	437	478	550	579	580	273
45°	364	403	460	464	456	280
55°	270	300	337	333	326	241
65°	174	194	216	215	211	173
75°	90	101	113	115	115	96
85°	25	31	39	45	46	26
90°	2	11	18	23	24	4
95°	40	51	96	220	263	46
105°	176	181	241	597	756	183
115°	264	273	315	645	910	254
125°	242	281	342	520	618	217
135°	232	258	317	387	428	179
145°	224	243	283	303	310	141
155°	215	222	249	270	277	100
165°	207	210	219	224	224	59
175°	201	201	203	203	199	19
180°	196	196	196	196	196	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3	463.3
2.5°	467.8	466.3	463.3	463.3	464.8	469.2	467.8	466.3	464.8	463.3
5°	469.2	466.3	466.3	467.8	470.7	476.6	476.6	476.6	476.6	476.6
7.5°	470.7	469.2	469.2	473.7	478.1	488.4	489.9	492.9	494.3	494.3
10°	472.2	470.7	473.7	481.0	489.9	503.2	509.1	513.5	516.5	517.9
12.5°	473.7	473.7	478.1	488.4	501.7	519.4	528.3	535.6	540.1	541.5
15°	475.1	476.6	484.0	498.8	516.5	537.1	550.4	560.7	566.6	568.1
17.5°	476.6	478.1	488.4	506.1	528.3	554.8	569.6	582.9	590.2	591.7
20°	476.6	479.6	492.9	515.0	541.5	569.6	587.3	600.6	607.9	610.9
22.5°	475.1	478.1	494.3	520.9	550.4	579.9	599.1	612.4	621.2	622.7
25°	472.2	476.6	495.8	523.8	556.3	587.3	606.5	618.3	625.7	628.6
27.5°	466.3	472.2	492.9	523.8	559.3	588.8	607.9	618.3	624.2	627.1
30°	460.4	466.3	488.4	520.9	556.3	585.8	602.0	612.4	616.8	618.3
32.5°	450.1	457.4	479.6	513.5	548.9	575.5	591.7	599.1	602.0	602.0
35°	436.8	444.2	469.2	503.2	537.1	562.2	575.5	579.9	579.9	579.9
37.5°	423.5	430.9	454.5	488.4	520.9	544.5	554.8	556.3	554.8	553.4
40°	405.8	413.2	436.8	470.7	501.7	520.9	528.3	526.8	523.8	522.4
42.5°	385.1	392.5	417.6	448.6	479.6	495.8	498.8	495.8	491.4	489.9
45°	364.5	371.9	395.5	426.4	453.0	466.3	467.8	463.3	457.4	456.0
47.5°	340.9	348.2	370.4	401.4	425.0	436.8	435.3	430.9	425.0	423.5
50°	315.8	324.6	345.3	374.8	394.0	404.3	402.8	396.9	391.0	389.6
52.5°	293.6	301.0	320.2	346.8	364.5	371.9	370.4	364.5	358.6	357.1
55°	270.0	275.9	293.6	317.3	333.5	340.9	337.9	332.0	326.1	326.1
57.5°	244.9	250.9	267.1	287.7	302.5	308.4	305.4	301.0	296.6	295.1
60°	219.9	227.2	242.0	259.7	273.0	275.9	274.5	270.0	267.1	265.6
62.5°	197.7	203.6	216.9	231.7	242.0	247.9	244.9	242.0	237.6	237.6
65°	174.1	180.0	190.4	203.6	214.0	218.4	216.9	214.0	211.0	211.0
67.5°	152.0	156.4	166.7	178.5	185.9	190.4	188.9	187.4	184.5	184.5
70°	131.3	134.3	143.1	152.0	159.4	163.8	163.8	162.3	160.8	160.8
72.5°	110.7	113.6	121.0	128.4	134.3	138.7	140.2	137.2	137.2	137.2
75°	90.0	94.4	98.9	106.2	110.7	115.1	116.6	115.1	115.1	115.1
77.5°	72.3	75.3	79.7	85.6	88.5	93.0	94.4	94.4	94.4	94.4
80°	54.6	57.5	62.0	64.9	69.4	73.8	75.3	75.3	76.7	75.3
82.5°	39.8	41.3	44.3	48.7	51.6	56.1	59.0	59.0	60.5	60.5
85°	25.1	26.6	29.5	33.9	36.9	41.3	44.3	45.7	45.7	45.7
87.5°	10.3	14.8	17.7	22.1	25.1	29.5	32.5	33.9	33.9	33.9
90°	1.5	7.4	10.3	13.3	16.2	19.2	22.1	23.6	23.6	23.6
92.5°	16.2	20.7	22.1	25.1	32.5	45.7	59.0	62.0	64.9	64.9
95°	39.8	47.2	50.2	51.6	69.4	122.5	187.4	230.2	252.3	262.7
97.5°	70.8	78.2	82.6	79.7	101.8	172.6	278.9	349.7	392.5	405.8
100°	103.3	112.1	116.6	109.2	134.3	215.4	361.5	453.0	513.5	537.1
102.5°	138.7	147.6	152.0	138.7	162.3	255.3	429.4	548.9	622.7	653.7
105°	175.6	181.5	185.9	168.2	188.9	292.2	484.0	634.5	721.6	755.5
107.5°	208.1	212.5	215.4	197.7	212.5	323.2	509.1	702.4	805.7	830.8
110°	236.1	240.5	240.5	225.8	234.6	345.3	509.1	745.2	867.7	913.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	256.8	262.7	259.7	250.9	252.3	357.1	504.7	742.2	894.2	938.5
115°	264.1	274.5	273.0	271.5	273.0	357.1	504.7	692.1	858.8	910.4
117.5°	259.7	277.4	286.3	284.8	289.2	355.6	498.8	625.7	773.2	835.2
120°	250.9	273.0	295.1	296.6	304.0	355.6	481.0	585.8	680.3	720.1
122.5°	244.9	256.8	292.2	299.5	315.8	354.1	463.3	557.8	630.1	650.7
125°	242.0	246.4	275.9	298.1	320.2	363.0	450.1	543.0	602.0	618.3
127.5°	237.6	242.0	262.7	289.2	318.7	364.5	425.0	522.4	569.6	587.3
130°	234.6	240.5	256.8	281.8	311.4	352.7	404.3	479.6	546.0	562.2
132.5°	233.1	239.0	255.3	280.4	308.4	343.8	377.8	417.6	467.8	475.1
135°	231.7	237.6	252.3	275.9	302.5	332.0	367.4	394.0	419.1	427.9
137.5°	230.2	236.1	247.9	271.5	295.1	314.3	345.3	376.3	398.4	405.8
140°	228.7	233.1	246.4	267.1	289.2	302.5	318.7	336.4	352.7	363.0
142.5°	227.2	231.7	242.0	261.2	283.3	296.6	305.4	314.3	320.2	323.2
145°	224.3	228.7	239.0	255.3	275.9	290.7	298.1	304.0	308.4	309.9
147.5°	222.8	224.3	233.1	247.9	268.6	283.3	292.2	296.6	299.5	301.0
150°	219.9	221.3	228.7	242.0	259.7	274.5	284.8	292.2	293.6	295.1
152.5°	216.9	218.4	224.3	234.6	250.9	265.6	274.5	283.3	287.7	289.2
155°	215.4	215.4	219.9	228.7	242.0	255.3	264.1	271.5	275.9	277.4
157.5°	214.0	214.0	216.9	224.3	233.1	243.5	253.8	259.7	264.1	265.6
160°	211.0	211.0	214.0	219.9	225.8	233.1	240.5	247.9	252.3	252.3
162.5°	209.5	209.5	211.0	215.4	221.3	225.8	228.7	231.7	234.6	234.6
165°	206.6	208.1	209.5	212.5	216.9	221.3	222.8	224.3	224.3	224.3
167.5°	205.1	206.6	208.1	209.5	212.5	215.4	216.9	218.4	218.4	218.4
170°	202.2	203.6	205.1	208.1	208.1	211.0	211.0	212.5	212.5	211.0
172.5°	200.7	202.2	203.6	205.1	206.6	206.6	206.6	206.6	205.1	205.1
175°	200.7	200.7	200.7	202.2	202.2	203.6	203.6	202.2	200.7	199.2
177.5°	199.2	199.2	199.2	199.2	197.7	199.2	197.7	197.7	196.3	194.8
180°	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3	196.3

(END OF REPORT)