

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: P183744

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183744
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-4L35-1D-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: 6075.5 lumens
Efficiency: N/A
Efficacy: 95.4 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

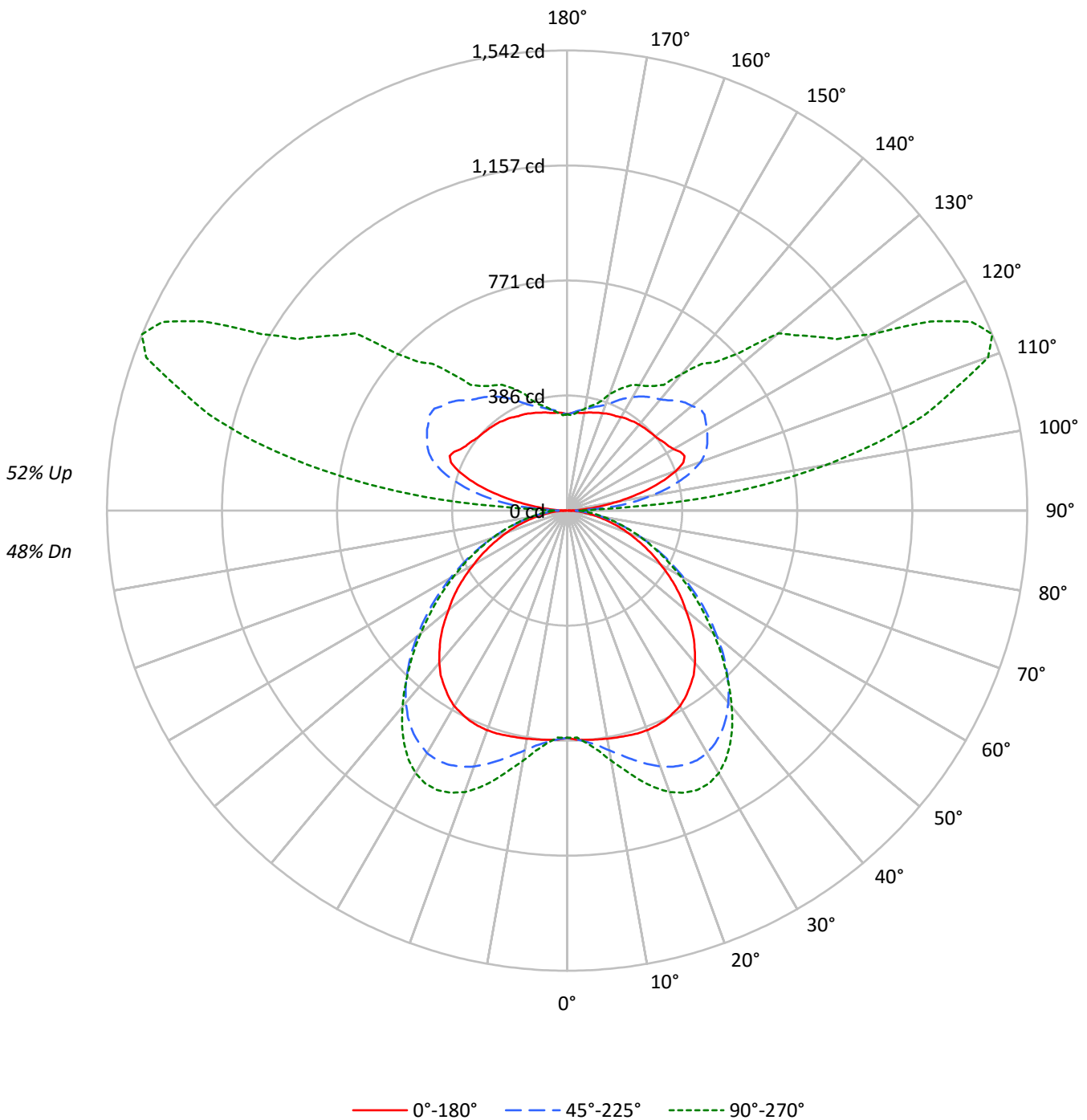
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6099	6099	6099
5°	6169	6030	6006
10°	6248	6166	6305
15°	6376	6432	6739
20°	6538	6721	7119
25°	6678	6908	7252
30°	6771	6941	7116
35°	6745	6775	6710
40°	6648	6441	6123
45°	6412	5968	5457
50°	6048	5388	4800
55°	5723	4778	4173
60°	5259	4126	3564
65°	4822	3488	3000
70°	4358	2837	2450
75°	3761	2192	1905
80°	3112	1568	1375
85°	2275	991	940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	1.2
10°-20°	244.8	4.0
20°-30°	423.6	7.0
30°-40°	541.6	8.9
40°-50°	549.9	9.1
50°-60°	466.3	7.7
60°-70°	333.8	5.5
70°-80°	189.8	3.1
80°-90°	70.9	1.2
90°-100°	226.1	3.7
100°-110°	628.2	10.3
110°-120°	726.3	12.0
120°-130°	576.8	9.5
130°-140°	415.2	6.8
140°-150°	284.6	4.7
150°-160°	188.2	3.1
160°-170°	102.1	1.7
170°-180°	32.0	0.5
0°-30°	743.6	12.2
0°-40°	1285.2	21.2
0°-60°	2301.5	37.9
0°-90°	2896.0	47.7
90°-120°	1580.6	26.0
90°-150°	2857.2	47.0
90°-180°	3179.0	52.3
0°-180°	6075.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	771	767	778	783	783	74
15°	781	801	866	917	934	221
25°	776	826	940	1011	1033	358
35°	718	785	903	951	953	449
45°	599	663	755	763	749	460
55°	444	492	554	548	536	395
65°	286	318	355	353	347	284
75°	148	166	186	190	189	159
85°	41	50	64	75	75	44
90°	2	18	29	38	39	7
95°	66	83	158	361	432	76
105°	289	298	395	981	1242	300
115°	434	448	518	1060	1496	418
125°	398	463	561	854	1016	357
135°	381	424	521	636	703	295
145°	369	399	466	497	509	232
155°	354	365	409	443	456	164
165°	340	346	360	368	369	97
175°	330	330	333	333	327	31
180°	322	322	322	322	322	



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CATALOG NUMBER: I2-WS-4L35-1D-UNV-4-STD

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4
2.5°	768.7	766.3	761.4	761.4	763.8	771.1	768.7	766.3	763.8	761.4
5°	771.1	766.3	766.3	768.7	773.5	783.2	783.2	783.2	783.2	783.2
7.5°	773.5	771.1	771.1	778.4	785.7	802.6	805.1	809.9	812.3	812.3
10°	776.0	773.5	778.4	790.5	805.1	826.9	836.6	843.9	848.7	851.1
12.5°	778.4	778.4	785.7	802.6	824.5	853.6	868.1	880.2	887.5	889.9
15°	780.8	783.2	795.4	819.6	848.7	882.7	904.5	921.5	931.2	933.6
17.5°	783.2	785.7	802.6	831.7	868.1	911.8	936.0	957.8	970.0	972.4
20°	783.2	788.1	809.9	846.3	889.9	936.0	965.1	986.9	999.1	1003.9
22.5°	780.8	785.7	812.3	856.0	904.5	953.0	984.5	1006.3	1020.9	1023.3
25°	776.0	783.2	814.8	860.8	914.2	965.1	996.6	1016.0	1028.2	1033.0
27.5°	766.3	776.0	809.9	860.8	919.0	967.5	999.1	1016.0	1025.7	1030.6
30°	756.6	766.3	802.6	856.0	914.2	962.7	989.4	1006.3	1013.6	1016.0
32.5°	739.6	751.7	788.1	843.9	902.1	945.7	972.4	984.5	989.4	989.4
35°	717.8	729.9	771.1	826.9	882.7	923.9	945.7	953.0	953.0	953.0
37.5°	695.9	708.1	746.9	802.6	856.0	894.8	911.8	914.2	911.8	909.3
40°	666.8	679.0	717.8	773.5	824.5	856.0	868.1	865.7	860.8	858.4
42.5°	632.9	645.0	686.2	737.2	788.1	814.8	819.6	814.8	807.5	805.1
45°	598.9	611.1	649.9	700.8	744.4	766.3	768.7	761.4	751.7	749.3
47.5°	560.2	572.3	608.6	659.6	698.4	717.8	715.3	708.1	698.4	695.9
50°	518.9	533.5	567.4	615.9	647.4	664.4	662.0	652.3	642.6	640.2
52.5°	482.6	494.7	526.2	569.9	598.9	611.1	608.6	598.9	589.3	586.8
55°	443.8	453.5	482.6	521.4	548.0	560.2	555.3	545.6	535.9	535.9
57.5°	402.5	412.2	438.9	472.9	497.1	506.8	502.0	494.7	487.4	485.0
60°	361.3	373.4	397.7	426.8	448.6	453.5	451.0	443.8	438.9	436.5
62.5°	324.9	334.6	356.5	380.7	397.7	407.4	402.5	397.7	390.4	390.4
65°	286.1	295.8	312.8	334.6	351.6	358.9	356.5	351.6	346.8	346.8
67.5°	249.8	257.0	274.0	293.4	305.5	312.8	310.4	308.0	303.1	303.1
70°	215.8	220.7	235.2	249.8	261.9	269.2	269.2	266.7	264.3	264.3
72.5°	181.9	186.7	198.8	211.0	220.7	227.9	230.4	225.5	225.5	225.5
75°	147.9	155.2	162.5	174.6	181.9	189.1	191.6	189.1	189.1	189.1
77.5°	118.8	123.7	130.9	140.6	145.5	152.8	155.2	155.2	155.2	155.2
80°	89.7	94.6	101.8	106.7	114.0	121.2	123.7	123.7	126.1	123.7
82.5°	65.5	67.9	72.7	80.0	84.9	92.1	97.0	97.0	99.4	99.4
85°	41.2	43.6	48.5	55.8	60.6	67.9	72.7	75.2	75.2	75.2
87.5°	17.0	24.2	29.1	36.4	41.2	48.5	53.3	55.8	55.8	55.8
90°	2.4	12.1	17.0	21.8	26.7	31.5	36.4	38.8	38.8	38.8
92.5°	26.7	33.9	36.4	41.2	53.3	75.2	97.0	101.8	106.7	106.7
95°	65.5	77.6	82.4	84.9	114.0	201.3	308.0	378.3	414.7	431.6
97.5°	116.4	128.5	135.8	130.9	167.3	283.7	458.3	574.7	645.0	666.8
100°	169.7	184.3	191.6	179.4	220.7	354.0	594.1	744.4	843.9	882.7
102.5°	227.9	242.5	249.8	227.9	266.7	419.5	705.6	902.1	1023.3	1074.2
105°	288.6	298.3	305.5	276.4	310.4	480.1	795.4	1042.7	1185.8	1241.5
107.5°	341.9	349.2	354.0	324.9	349.2	531.1	836.6	1154.3	1324.0	1365.2
110°	388.0	395.3	395.3	371.0	385.6	567.4	836.6	1224.6	1425.8	1501.0



TEST NUMBER: P183744

CATALOG NUMBER: I2-WS-4L35-1D-UNV-4-STD

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	421.9	431.6	426.8	412.2	414.7	586.8	829.3	1219.7	1469.5	1542.2
115°	434.1	451.0	448.6	446.2	448.6	586.8	829.3	1137.3	1411.3	1496.2
117.5°	426.8	455.9	470.4	468.0	475.3	584.4	819.6	1028.2	1270.6	1372.5
120°	412.2	448.6	485.0	487.4	499.5	584.4	790.5	962.7	1117.9	1183.3
122.5°	402.5	421.9	480.1	492.3	518.9	582.0	761.4	916.6	1035.4	1069.4
125°	397.7	405.0	453.5	489.8	526.2	596.5	739.6	892.4	989.4	1016.0
127.5°	390.4	397.7	431.6	475.3	523.8	598.9	698.4	858.4	936.0	965.1
130°	385.6	395.3	421.9	463.2	511.7	579.6	664.4	788.1	897.2	923.9
132.5°	383.1	392.8	419.5	460.7	506.8	565.0	620.8	686.2	768.7	780.8
135°	380.7	390.4	414.7	453.5	497.1	545.6	603.8	647.4	688.7	703.2
137.5°	378.3	388.0	407.4	446.2	485.0	516.5	567.4	618.3	654.7	666.8
140°	375.9	383.1	405.0	438.9	475.3	497.1	523.8	552.9	579.6	596.5
142.5°	373.4	380.7	397.7	429.2	465.6	487.4	502.0	516.5	526.2	531.1
145°	368.6	375.9	392.8	419.5	453.5	477.7	489.8	499.5	506.8	509.2
147.5°	366.2	368.6	383.1	407.4	441.3	465.6	480.1	487.4	492.3	494.7
150°	361.3	363.7	375.9	397.7	426.8	451.0	468.0	480.1	482.6	485.0
152.5°	356.5	358.9	368.6	385.6	412.2	436.5	451.0	465.6	472.9	475.3
155°	354.0	354.0	361.3	375.9	397.7	419.5	434.1	446.2	453.5	455.9
157.5°	351.6	351.6	356.5	368.6	383.1	400.1	417.1	426.8	434.1	436.5
160°	346.8	346.8	351.6	361.3	371.0	383.1	395.3	407.4	414.7	414.7
162.5°	344.3	344.3	346.8	354.0	363.7	371.0	375.9	380.7	385.6	385.6
165°	339.5	341.9	344.3	349.2	356.5	363.7	366.2	368.6	368.6	368.6
167.5°	337.1	339.5	341.9	344.3	349.2	354.0	356.5	358.9	358.9	358.9
170°	332.2	334.6	337.1	341.9	341.9	346.8	346.8	349.2	349.2	346.8
172.5°	329.8	332.2	334.6	337.1	339.5	339.5	339.5	339.5	337.1	337.1
175°	329.8	329.8	329.8	332.2	332.2	334.6	334.6	332.2	329.8	327.4
177.5°	327.4	327.4	327.4	327.4	324.9	327.4	324.9	324.9	322.5	320.1
180°	322.5	322.5	322.5	322.5	322.5	322.5	322.5	322.5	322.5	322.5

(END OF REPORT)