

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: P183729

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183729  
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-4L35-1D-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**

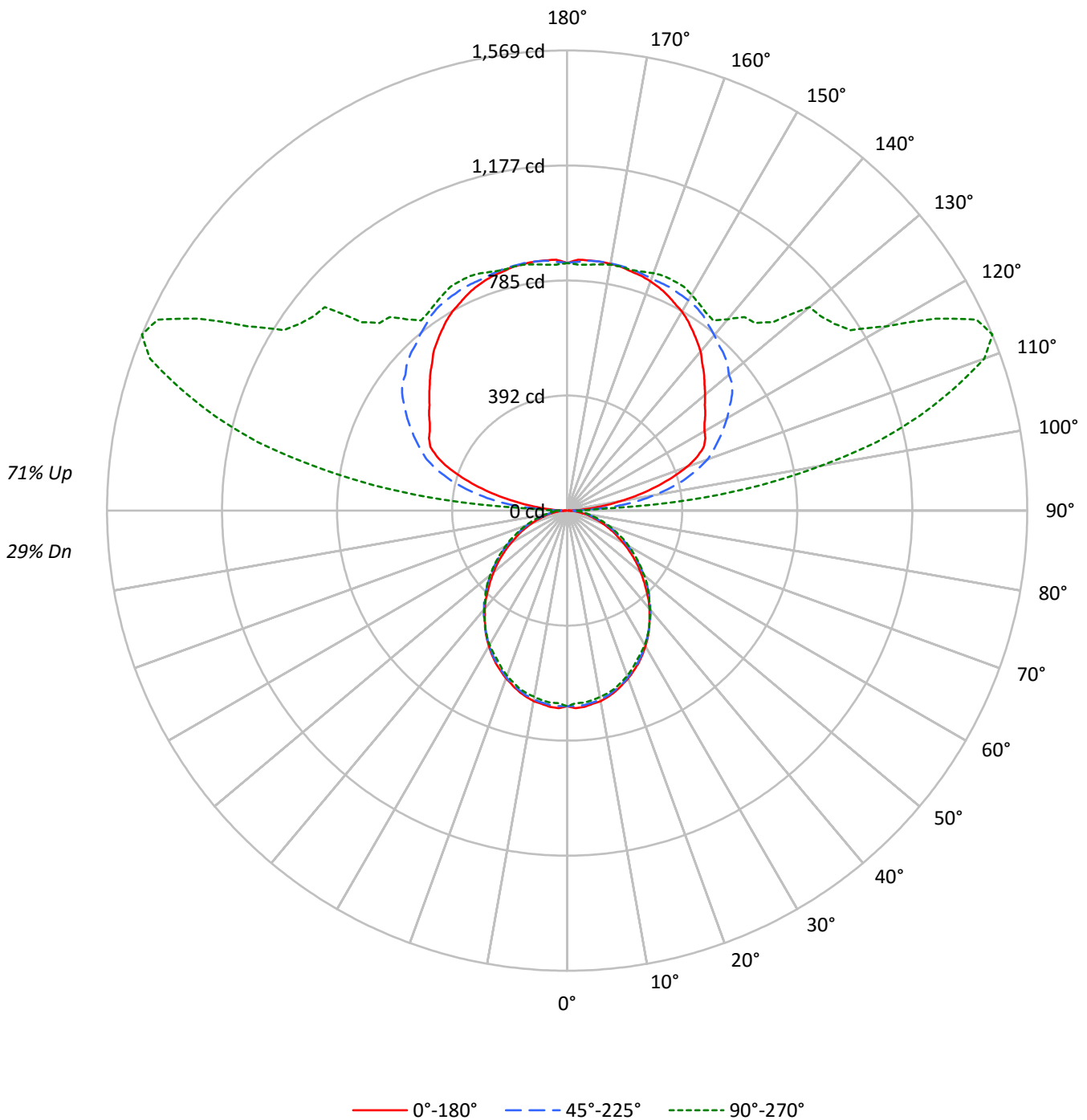
Lumens per Lamp: N/A  
Luminaire Lumens: 5862.0 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: Semi-Indirect

Input Watts (W): 63.7  
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



TEST NUMBER: P183729  
CATALOG NUMBER: I2-WS-4L35-1D-UNV-4-STD-DM8

### Luminous Intensity Polar Plot





TEST NUMBER: P183729

CATALOG NUMBER: I2-WS-4L35-1D-UNV-4-STD-DM8

**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°	5343	5343	5343
5°	5375	5158	5040
10°	5312	4948	4780
15°	5209	4703	4535
20°	5082	4455	4248
25°	4946	4199	3950
30°	4775	3929	3703
35°	4581	3647	3432
40°	4353	3384	3131
45°	4077	3104	2844
50°	3816	2790	2564
55°	3535	2489	2267
60°	3212	2174	1980
65°	2943	1846	1678
70°	2595	1542	1417
75°	2281	1203	1124
80°	1853	889	836
85°	1342	598	607



TEST NUMBER: P183729

CATALOG NUMBER: I2-WS-4L35-1D-UNV-4-STD-DM8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.0	1.1
10°-20°	178.0	3.0
20°-30°	261.8	4.5
30°-40°	304.1	5.2
40°-50°	299.9	5.1
50°-60°	255.8	4.4
60°-70°	186.4	3.2
70°-80°	108.8	1.9
80°-90°	43.2	0.7
90°-100°	230.5	3.9
100°-110°	650.4	11.1
110°-120°	782.3	13.3
120°-130°	695.2	11.9
130°-140°	596.7	10.2
140°-150°	499.0	8.5
150°-160°	385.4	6.6
160°-170°	240.2	4.1
170°-180°	81.3	1.4
0°-30°	502.8	8.6
0°-40°	807.0	13.8
0°-60°	1362.6	23.2
0°-90°	1701.0	29.0
90°-120°	1663.2	28.4
90°-150°	3454.1	58.9
90°-180°	4161.0	71.0
0°-180°	5862.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	667	667	667	667	667	
5°	672	664	666	663	657	64
15°	638	632	633	631	628	180
25°	575	569	571	566	563	264
35°	488	483	486	490	488	304
45°	381	383	393	391	390	294
55°	274	281	289	291	291	245
65°	175	182	188	193	194	172
75°	90	97	102	108	112	95
85°	24	32	39	46	48	25
90°	2	13	21	26	27	6
95°	73	88	164	367	427	83
105°	313	322	418	997	1242	329
115°	514	514	570	1103	1540	499
125°	575	618	686	962	1111	515
135°	660	689	756	841	905	510
145°	747	763	810	819	825	468
155°	810	809	838	855	864	374
165°	844	844	851	848	849	239
175°	856	854	855	850	842	82
180°	844	844	844	844	844	



TEST NUMBER: P183729

CATALOG NUMBER: I2-WS-4L35-1D-UNV-4-STD-DM8

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	674.3	669.4	667.0	664.6	664.6	669.4	667.0	664.6	659.7	657.3
5°	671.8	667.0	664.6	662.1	664.6	667.0	664.6	662.1	659.7	657.3
7.5°	664.6	662.1	657.3	657.3	657.3	662.1	657.3	657.3	654.9	652.4
10°	659.7	654.9	652.4	652.4	652.4	657.3	652.4	650.0	647.6	645.2
12.5°	650.0	645.2	642.7	642.7	642.7	647.6	642.7	640.3	637.9	637.9
15°	637.9	635.5	633.0	630.6	630.6	635.5	633.0	630.6	628.2	628.2
17.5°	623.3	620.9	618.5	618.5	618.5	623.3	618.5	616.1	613.6	613.6
20°	608.8	606.4	603.9	603.9	603.9	606.4	603.9	601.5	599.1	599.1
22.5°	591.8	589.4	587.0	587.0	587.0	589.4	587.0	582.1	582.1	582.1
25°	574.8	572.4	570.0	567.6	570.0	572.4	567.6	565.1	562.7	562.7
27.5°	555.4	553.0	550.6	548.2	550.6	553.0	550.6	545.7	545.7	545.7
30°	533.6	531.2	528.7	528.7	531.2	531.2	528.7	528.7	528.7	528.7
32.5°	511.8	509.3	506.9	506.9	509.3	509.3	511.8	511.8	509.3	509.3
35°	487.5	485.1	482.7	482.7	485.1	487.5	489.9	489.9	489.9	487.5
37.5°	460.8	460.8	458.4	458.4	463.3	468.1	468.1	465.7	465.7	463.3
40°	436.6	434.2	434.2	434.2	439.0	443.9	443.9	441.4	439.0	439.0
42.5°	409.9	409.9	409.9	409.9	417.2	419.6	417.2	417.2	414.8	414.8
45°	380.8	383.2	383.2	383.2	392.9	392.9	392.9	390.5	392.9	390.5
47.5°	354.1	356.5	356.5	361.4	366.2	366.2	366.2	368.7	368.7	368.7
50°	327.4	329.9	329.9	337.1	339.6	339.6	342.0	342.0	342.0	342.0
52.5°	300.8	300.8	303.2	310.5	312.9	315.3	315.3	317.7	317.7	317.7
55°	274.1	276.5	278.9	286.2	286.2	291.1	291.1	291.1	293.5	291.1
57.5°	247.4	249.8	252.2	257.1	261.9	264.4	264.4	266.8	266.8	266.8
60°	220.7	225.6	230.4	232.8	237.7	237.7	240.1	242.5	242.5	242.5
62.5°	196.5	201.3	206.2	208.6	211.0	213.4	215.9	218.3	220.7	220.7
65°	174.6	177.1	181.9	184.3	186.8	189.2	191.6	194.0	196.5	194.0
67.5°	150.4	155.2	160.1	162.5	164.9	167.4	169.8	172.2	172.2	172.2
70°	128.5	133.4	138.3	140.7	143.1	145.5	148.0	150.4	150.4	152.8
72.5°	109.1	114.0	116.4	118.8	121.3	123.7	126.1	128.5	131.0	131.0
75°	89.7	94.6	97.0	97.0	99.4	104.3	106.7	109.1	109.1	111.6
77.5°	70.3	75.2	77.6	80.0	82.5	84.9	87.3	89.7	92.2	92.2
80°	53.4	58.2	60.6	63.1	65.5	67.9	70.3	72.8	75.2	75.2
82.5°	36.4	43.7	43.7	46.1	48.5	53.4	55.8	58.2	60.6	60.6
85°	24.3	29.1	31.5	34.0	36.4	41.2	43.7	46.1	48.5	48.5
87.5°	9.7	17.0	19.4	21.8	26.7	29.1	31.5	34.0	36.4	36.4
90°	2.4	9.7	12.1	14.6	19.4	21.8	24.3	26.7	26.7	26.7
92.5°	31.5	36.4	36.4	41.2	50.9	77.6	97.0	101.9	99.4	92.2
95°	72.8	82.5	87.3	89.7	118.8	208.6	317.7	383.2	417.2	426.9
97.5°	126.1	138.3	145.5	140.7	179.5	298.3	470.5	587.0	650.0	667.0
100°	184.3	196.5	206.2	194.0	235.3	368.7	608.8	759.2	853.8	880.4
102.5°	249.8	261.9	269.2	247.4	288.6	436.6	725.2	916.8	1035.7	1081.8
105°	312.9	325.0	329.9	298.3	334.7	502.1	810.1	1059.9	1200.6	1241.8
107.5°	375.9	383.2	383.2	351.7	375.9	555.4	858.6	1173.9	1338.8	1382.5
110°	434.2	436.6	434.2	405.1	419.6	599.1	861.0	1246.7	1445.6	1513.5



TEST NUMBER: P183729

CATALOG NUMBER: I2-WS-4L35-1D-UNV-4-STD-DM8

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	480.2	485.1	475.4	456.0	456.0	623.3	861.0	1246.7	1491.7	1569.3
115°	514.2	526.3	516.6	506.9	502.1	637.9	875.6	1178.8	1448.0	1540.2
117.5°	531.2	555.4	557.9	548.2	548.2	652.4	880.4	1084.2	1326.7	1416.5
120°	540.9	570.0	596.7	587.0	591.8	667.0	865.9	1028.4	1190.9	1256.4
122.5°	555.4	570.0	616.1	613.6	630.6	681.6	851.3	1004.1	1118.1	1144.8
125°	574.8	577.3	613.6	630.6	657.3	715.5	848.9	999.3	1086.6	1110.9
127.5°	591.8	596.7	618.5	642.7	679.1	739.8	831.9	984.7	1055.1	1089.0
130°	613.6	618.5	635.5	662.1	693.7	747.0	819.8	938.6	1047.8	1079.3
132.5°	635.5	642.7	659.7	688.8	717.9	764.0	802.8	858.6	936.2	950.8
135°	659.7	667.0	681.6	710.7	739.8	771.3	817.4	848.9	887.7	904.7
137.5°	681.6	688.8	701.0	727.6	756.7	773.7	810.1	848.9	878.0	895.0
140°	708.2	713.1	725.2	747.0	776.1	785.8	800.4	817.4	839.2	851.3
142.5°	727.6	732.5	742.2	761.6	788.3	800.4	805.2	810.1	817.4	817.4
145°	747.0	749.5	759.2	773.7	802.8	817.4	817.4	819.8	824.7	824.7
147.5°	766.4	766.4	773.7	785.8	812.5	829.5	834.4	831.9	834.4	836.8
150°	783.4	781.0	785.8	798.0	819.8	834.4	844.1	846.5	846.5	848.9
152.5°	795.5	795.5	795.5	805.2	824.7	839.2	846.5	853.8	858.6	861.0
155°	810.1	807.7	807.7	812.5	829.5	846.5	851.3	856.2	861.0	863.5
157.5°	822.2	822.2	819.8	822.2	831.9	846.5	856.2	858.6	863.5	865.9
160°	831.9	829.5	829.5	829.5	836.8	846.5	851.3	856.2	861.0	861.0
162.5°	839.2	839.2	836.8	836.8	844.1	848.9	846.5	846.5	851.3	853.8
165°	844.1	846.5	844.1	844.1	848.9	853.8	851.3	846.5	846.5	848.9
167.5°	851.3	851.3	851.3	848.9	851.3	856.2	853.8	851.3	851.3	851.3
170°	853.8	853.8	853.8	853.8	853.8	858.6	853.8	851.3	851.3	851.3
172.5°	856.2	853.8	853.8	853.8	853.8	858.6	853.8	848.9	846.5	846.5
175°	856.2	856.2	853.8	853.8	853.8	856.2	851.3	848.9	844.1	841.6
177.5°	856.2	853.8	851.3	846.5	846.5	851.3	846.5	841.6	839.2	839.2
180°	844.1	844.1	844.1	844.1	844.1	844.1	844.1	844.1	844.1	844.1

(END OF REPORT)