

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: P183759

Luminaire Tested: **I2-WS-4L35-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26979)
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-DM5
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 40% UP / 60% DOWN.
Light Source: (336)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

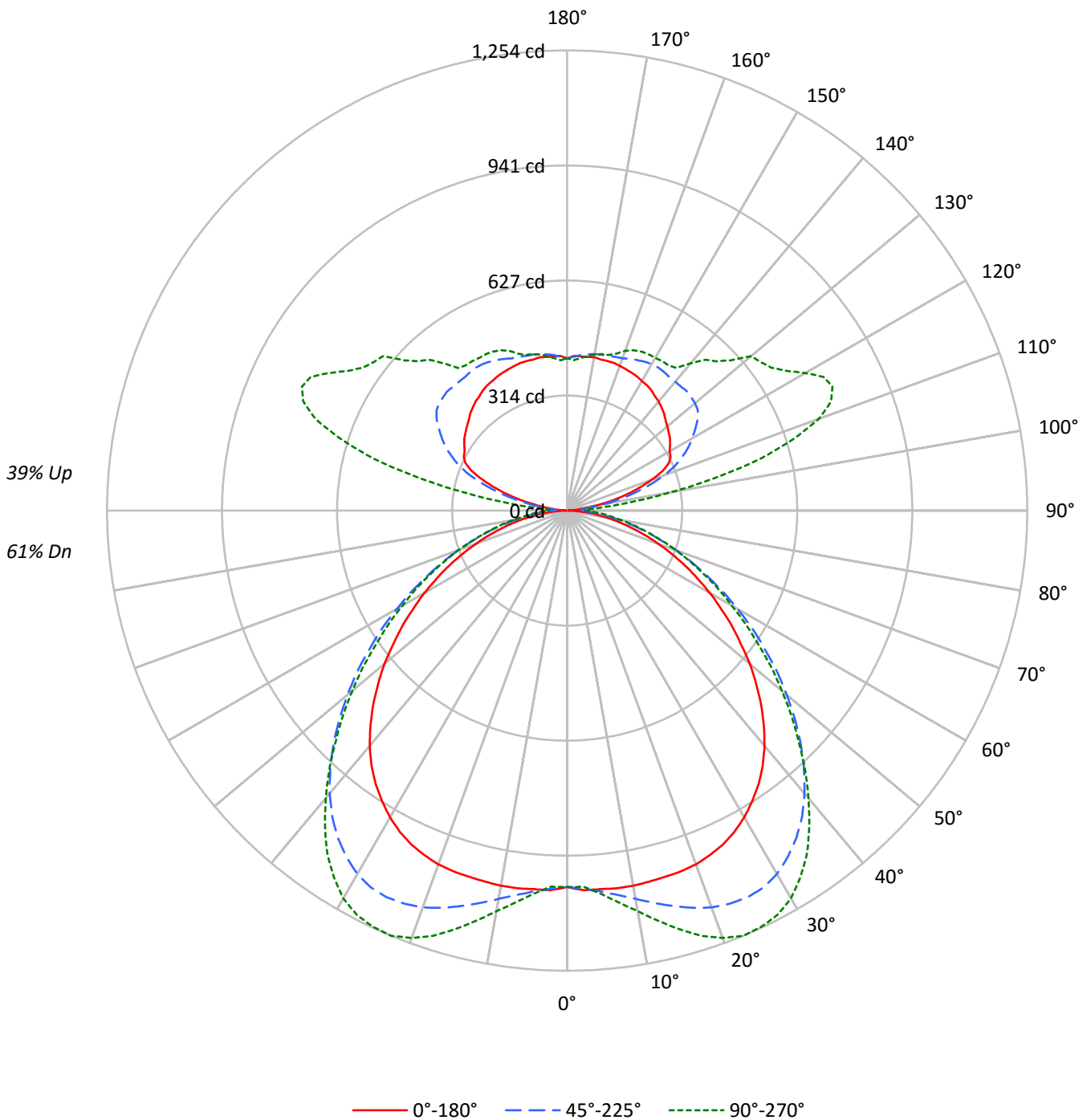
Lumens per Lamp: N/A
Luminaire Lumens: 5786.8 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Direct

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



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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	56	51
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	49	47	43
3	83	73	66	60	77	69	62	56	60	55	51	52	48	45	45	42	40	36
4	76	65	56	50	71	61	53	48	53	48	43	47	42	38	40	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	36	31	39	33	28	34	29	26	30	26	23	20
8	55	42	34	29	51	40	33	27	35	29	25	31	26	23	27	23	20	18
9	51	38	31	26	48	36	29	24	32	27	22	29	24	20	25	21	18	16
10	48	35	28	23	45	33	27	22	30	24	20	26	22	18	23	19	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8218	8218	8218
5°	8285	8070	8034
10°	8357	8118	8211
15°	8437	8288	8526
20°	8564	8472	8788
25°	8641	8549	8786
30°	8639	8459	8544
35°	8546	8168	8026
40°	8342	7716	7300
45°	7997	7118	6500
50°	7575	6415	5729
55°	7068	5667	4948
60°	6531	4902	4238
65°	5968	4119	3566
70°	5340	3368	2923
75°	4626	2623	2272
80°	3785	1859	1672
85°	2546	1178	1153



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.7
10°-20°	315.1	5.4
20°-30°	526.1	9.1
30°-40°	657.5	11.4
40°-50°	662.0	11.4
50°-60°	560.3	9.7
60°-70°	400.1	6.9
70°-80°	227.4	3.9
80°-90°	84.3	1.5
90°-100°	73.1	1.3
100°-110°	294.8	5.1
110°-120°	440.6	7.6
120°-130°	428.1	7.4
130°-140°	361.8	6.3
140°-150°	283.6	4.9
150°-160°	207.7	3.6
160°-170°	123.4	2.1
170°-180°	40.5	0.7
0°-30°	941.4	16.3
0°-40°	1598.9	27.6
0°-60°	2821.2	48.8
0°-90°	3533.1	61.1
90°-120°	808.6	14.0
90°-150°	1882.1	32.5
90°-180°	2254.0	39.0
0°-180°	5786.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1036	1029	1042	1045	1048	99
15°	1033	1049	1116	1167	1181	293
25°	1004	1050	1163	1232	1252	462
35°	910	974	1089	1135	1140	568
45°	747	810	901	905	892	575
55°	548	597	657	652	635	490
65°	354	384	420	421	412	351
75°	182	199	222	228	226	194
85°	46	58	76	89	92	51
90°	2	19	35	46	48	5
95°	24	27	41	78	90	33
105°	165	167	195	430	546	174
115°	306	307	346	606	798	294
125°	342	378	434	592	679	305
135°	374	403	461	528	575	288
145°	400	423	461	477	483	250
155°	415	426	452	472	478	192
165°	422	430	437	439	439	120
175°	422	422	426	423	417	40
180°	415	415	415	415	415	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9	1025.9
2.5°	1035.6	1030.8	1025.9	1025.9	1025.9	1038.0	1033.2	1030.8	1025.9	1025.9
5°	1035.6	1030.8	1028.3	1030.8	1035.6	1047.7	1045.3	1045.3	1047.7	1047.7
7.5°	1038.0	1033.2	1030.8	1038.0	1047.7	1064.7	1067.1	1072.0	1074.4	1076.8
10°	1038.0	1033.2	1035.6	1047.7	1062.3	1086.5	1093.8	1101.1	1105.9	1108.4
12.5°	1035.6	1033.2	1040.5	1057.4	1079.3	1110.8	1122.9	1135.0	1142.3	1144.7
15°	1033.2	1033.2	1042.9	1067.1	1096.2	1135.0	1152.0	1171.4	1181.1	1181.1
17.5°	1030.8	1030.8	1047.7	1076.8	1113.2	1156.9	1181.1	1200.5	1212.7	1215.1
20°	1025.9	1025.9	1047.7	1084.1	1127.8	1173.8	1200.5	1222.4	1236.9	1239.3
22.5°	1016.2	1021.1	1045.3	1086.5	1135.0	1183.5	1212.7	1234.5	1249.0	1253.9
25°	1004.1	1008.9	1038.0	1084.1	1137.5	1188.4	1217.5	1236.9	1249.0	1251.5
27.5°	987.1	994.4	1025.9	1076.8	1132.6	1183.5	1210.2	1227.2	1236.9	1241.8
30°	965.3	975.0	1008.9	1062.3	1120.5	1166.6	1193.3	1207.8	1215.1	1219.9
32.5°	938.6	948.3	987.1	1040.5	1098.7	1139.9	1164.1	1176.3	1178.7	1183.5
35°	909.5	919.2	960.4	1013.8	1069.6	1108.4	1127.8	1137.5	1135.0	1139.9
37.5°	875.5	885.2	926.5	979.8	1033.2	1069.6	1084.1	1086.5	1081.7	1084.1
40°	836.7	846.4	887.7	941.0	989.5	1023.5	1030.8	1025.9	1021.1	1023.5
42.5°	793.1	805.2	844.0	894.9	943.4	967.7	975.0	967.7	958.0	960.4
45°	747.0	759.1	797.9	846.4	890.1	911.9	911.9	902.2	894.9	892.5
47.5°	698.5	710.6	747.0	795.5	831.9	851.3	851.3	841.6	829.5	829.5
50°	650.0	659.7	693.6	742.1	771.2	790.6	785.8	776.1	766.4	764.0
52.5°	596.6	611.2	640.3	686.4	713.0	727.6	725.2	715.5	703.3	700.9
55°	548.1	560.2	586.9	625.7	650.0	664.5	659.7	650.0	640.3	635.4
57.5°	497.2	509.3	536.0	567.5	591.8	603.9	599.1	589.3	582.1	577.2
60°	448.7	458.4	482.6	509.3	531.1	540.8	538.4	531.1	523.9	519.0
62.5°	400.2	409.9	429.3	453.5	472.9	482.6	480.2	475.4	468.1	465.7
65°	354.1	361.4	378.3	400.2	414.7	424.4	424.4	419.6	414.7	412.3
67.5°	308.0	315.3	329.8	349.2	361.4	371.1	373.5	368.6	363.8	361.4
70°	264.4	271.6	281.3	298.3	310.4	320.1	322.6	320.1	315.3	315.3
72.5°	223.1	228.0	237.7	249.8	264.4	269.2	271.6	271.6	271.6	269.2
75°	181.9	186.7	196.4	208.6	218.3	225.6	228.0	228.0	225.6	225.6
77.5°	143.1	150.4	155.2	167.3	177.0	181.9	186.7	186.7	186.7	186.7
80°	109.1	114.0	118.8	128.5	135.8	143.1	147.9	150.4	150.4	150.4
82.5°	77.6	82.5	84.9	94.6	101.9	109.1	114.0	118.8	118.8	118.8
85°	46.1	50.9	55.8	65.5	72.8	80.0	87.3	89.7	92.2	92.2
87.5°	19.4	26.7	31.5	41.2	50.9	58.2	63.1	65.5	67.9	67.9
90°	2.4	9.7	17.0	24.3	31.5	38.8	43.7	46.1	48.5	48.5
92.5°	9.7	12.1	14.6	19.4	26.7	34.0	41.2	43.7	48.5	48.5
95°	24.3	29.1	26.7	26.7	31.5	50.9	70.3	80.0	87.3	89.7
97.5°	50.9	53.4	53.4	50.9	55.8	80.0	126.1	152.8	169.8	172.2
100°	82.5	87.3	87.3	82.5	89.7	123.7	203.7	249.8	278.9	288.6
102.5°	123.7	126.1	128.5	118.8	126.1	174.6	281.3	358.9	402.6	414.7
105°	164.9	169.8	169.8	157.6	164.9	225.6	344.4	458.4	521.4	545.7
107.5°	206.2	211.0	208.6	194.0	201.3	276.5	392.9	536.0	620.9	645.1
110°	245.0	249.8	245.0	232.8	240.1	322.6	426.9	596.6	693.6	730.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	281.3	283.8	278.9	271.6	276.5	358.9	465.7	630.6	744.6	778.5
115°	305.6	312.9	308.0	305.6	310.4	380.8	502.0	640.3	761.5	797.9
117.5°	317.7	332.3	337.1	334.7	344.4	400.2	526.3	630.6	749.4	788.2
120°	322.6	342.0	358.9	361.4	371.1	417.2	533.6	628.2	713.0	749.4
122.5°	332.3	344.4	373.5	380.8	395.3	431.7	531.1	620.9	688.8	708.2
125°	342.0	346.8	373.5	392.9	414.7	453.5	528.7	613.6	667.0	679.1
127.5°	349.2	356.5	373.5	397.8	429.3	468.1	521.4	606.3	647.6	664.5
130°	356.5	363.8	380.8	405.0	434.1	475.4	519.0	584.5	640.3	654.8
132.5°	363.8	373.5	390.5	412.3	441.4	475.4	509.3	550.5	596.6	606.3
135°	373.5	383.2	397.8	419.6	446.3	475.4	509.3	533.6	560.2	574.8
137.5°	380.8	390.5	402.6	426.9	448.7	468.1	494.8	523.9	545.7	557.8
140°	388.0	397.8	409.9	431.7	451.1	465.7	480.2	494.8	511.7	523.9
142.5°	392.9	402.6	414.7	434.1	453.5	463.2	472.9	480.2	487.5	489.9
145°	400.2	407.5	419.6	434.1	456.0	465.7	472.9	477.8	482.6	482.6
147.5°	405.0	409.9	422.0	434.1	456.0	468.1	472.9	477.8	480.2	482.6
150°	407.5	412.3	422.0	434.1	453.5	468.1	472.9	477.8	477.8	480.2
152.5°	412.3	414.7	424.4	434.1	448.7	465.7	470.5	475.4	480.2	480.2
155°	414.7	417.2	424.4	431.7	443.8	460.8	468.1	472.9	475.4	477.8
157.5°	417.2	419.6	426.9	431.7	441.4	453.5	463.2	468.1	472.9	472.9
160°	419.6	422.0	426.9	431.7	439.0	443.8	451.1	458.4	463.2	463.2
162.5°	422.0	424.4	429.3	431.7	436.6	441.4	443.8	443.8	448.7	448.7
165°	422.0	424.4	429.3	431.7	434.1	439.0	439.0	439.0	439.0	439.0
167.5°	422.0	424.4	426.9	429.3	434.1	436.6	436.6	436.6	436.6	436.6
170°	424.4	424.4	426.9	429.3	431.7	434.1	431.7	431.7	431.7	431.7
172.5°	422.0	422.0	424.4	426.9	429.3	429.3	429.3	426.9	426.9	424.4
175°	422.0	422.0	422.0	422.0	424.4	426.9	424.4	422.0	419.6	417.2
177.5°	422.0	422.0	419.6	419.6	419.6	419.6	417.2	414.7	412.3	409.9
180°	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7

(END OF REPORT)