

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: P183735

Luminaire Tested: **I2-WS-5L40-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183735
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-5L40-1D-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)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

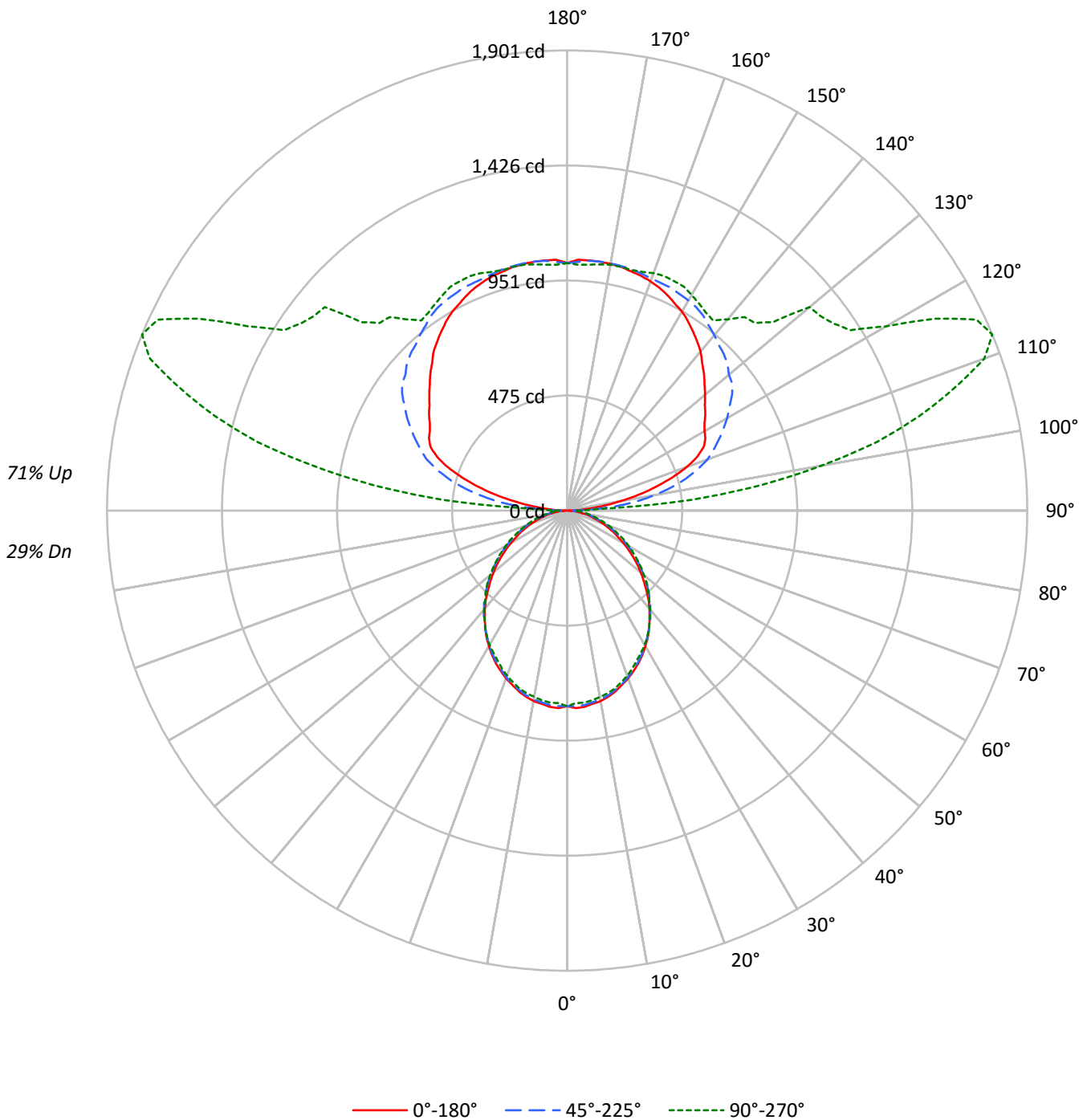
Lumens per Lamp: N/A
Luminaire Lumens: 7101.4 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

Input Watts (W): 79.2
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	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°	6472	6472	6472
5°	6511	6248	6106
10°	6435	5995	5790
15°	6311	5697	5493
20°	6157	5397	5146
25°	5993	5087	4786
30°	5785	4760	4486
35°	5550	4418	4158
40°	5273	4099	3793
45°	4939	3761	3446
50°	4623	3379	3107
55°	4281	3015	2746
60°	3892	2633	2399
65°	3566	2236	2034
70°	3144	1868	1716
75°	2765	1458	1362
80°	2241	1077	1013
85°	1623	726	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.1
10°-20°	215.6	3.0
20°-30°	317.2	4.5
30°-40°	368.4	5.2
40°-50°	363.3	5.1
50°-60°	309.9	4.4
60°-70°	225.8	3.2
70°-80°	131.8	1.9
80°-90°	52.4	0.7
90°-100°	279.3	3.9
100°-110°	787.9	11.1
110°-120°	947.7	13.3
120°-130°	842.2	11.9
130°-140°	722.8	10.2
140°-150°	604.5	8.5
150°-160°	466.9	6.6
160°-170°	291.0	4.1
170°-180°	98.5	1.4
0°-30°	609.1	8.6
0°-40°	977.6	13.8
0°-60°	1650.7	23.2
0°-90°	2060.7	29.0
90°-120°	2014.8	28.4
90°-150°	4184.4	58.9
90°-180°	5041.0	71.0
0°-180°	7101.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	814	804	807	803	796	77
15°	773	766	767	765	761	218
25°	696	690	692	685	682	320
35°	591	585	589	594	591	369
45°	461	464	476	474	473	357
55°	332	340	350	353	353	297
65°	212	221	228	234	235	209
75°	109	118	123	131	135	115
85°	29	39	47	55	59	30
90°	3	15	25	32	32	8
95°	88	107	198	444	517	101
105°	379	390	507	1208	1504	399
115°	623	623	690	1336	1866	604
125°	696	749	832	1165	1346	624
135°	799	834	915	1019	1096	617
145°	905	924	981	992	999	567
155°	981	980	1015	1036	1046	453
165°	1022	1022	1031	1027	1028	290
175°	1037	1034	1036	1029	1020	99
180°	1022	1022	1022	1022	1022	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	808.0	808.0	808.0	808.0	808.0	808.0	808.0	808.0	808.0	808.0
2.5°	816.8	811.0	808.0	805.1	805.1	811.0	808.0	805.1	799.2	796.3
5°	813.9	808.0	805.1	802.1	805.1	808.0	805.1	802.1	799.2	796.3
7.5°	805.1	802.1	796.3	796.3	796.3	802.1	796.3	796.3	793.3	790.4
10°	799.2	793.3	790.4	790.4	790.4	796.3	790.4	787.5	784.5	781.6
12.5°	787.5	781.6	778.6	778.6	778.6	784.5	778.6	775.7	772.8	772.8
15°	772.8	769.8	766.9	763.9	763.9	769.8	766.9	763.9	761.0	761.0
17.5°	755.1	752.2	749.3	749.3	749.3	755.1	749.3	746.3	743.4	743.4
20°	737.5	734.6	731.6	731.6	731.6	734.6	731.6	728.7	725.7	725.7
22.5°	716.9	714.0	711.1	711.1	711.1	714.0	711.1	705.2	705.2	705.2
25°	696.4	693.4	690.5	687.6	690.5	693.4	687.6	684.6	681.7	681.7
27.5°	672.9	669.9	667.0	664.0	667.0	669.9	667.0	661.1	661.1	661.1
30°	646.4	643.5	640.5	640.5	643.5	643.5	640.5	640.5	640.5	640.5
32.5°	620.0	617.0	614.1	614.1	617.0	617.0	620.0	620.0	617.0	617.0
35°	590.6	587.6	584.7	584.7	587.6	590.6	593.5	593.5	593.5	590.6
37.5°	558.3	558.3	555.3	555.3	561.2	567.1	567.1	564.1	564.1	561.2
40°	528.9	525.9	525.9	525.9	531.8	537.7	537.7	534.8	531.8	531.8
42.5°	496.6	496.6	496.6	496.6	505.4	508.3	505.4	505.4	502.4	502.4
45°	461.3	464.2	464.2	464.2	476.0	476.0	476.0	473.1	476.0	473.1
47.5°	429.0	431.9	431.9	437.8	443.7	443.7	443.7	446.6	446.6	446.6
50°	396.7	399.6	399.6	408.4	411.4	411.4	414.3	414.3	414.3	414.3
52.5°	364.3	364.3	367.3	376.1	379.0	382.0	382.0	384.9	384.9	384.9
55°	332.0	335.0	337.9	346.7	346.7	352.6	352.6	352.6	355.5	352.6
57.5°	299.7	302.6	305.6	311.5	317.3	320.3	320.3	323.2	323.2	323.2
60°	267.4	273.3	279.1	282.1	287.9	287.9	290.9	293.8	293.8	293.8
62.5°	238.0	243.9	249.8	252.7	255.6	258.6	261.5	264.4	267.4	267.4
65°	211.6	214.5	220.4	223.3	226.2	229.2	232.1	235.1	238.0	235.1
67.5°	182.2	188.0	193.9	196.9	199.8	202.7	205.7	208.6	208.6	208.6
70°	155.7	161.6	167.5	170.4	173.4	176.3	179.2	182.2	182.2	185.1
72.5°	132.2	138.1	141.0	144.0	146.9	149.9	152.8	155.7	158.7	158.7
75°	108.7	114.6	117.5	117.5	120.5	126.3	129.3	132.2	132.2	135.2
77.5°	85.2	91.1	94.0	97.0	99.9	102.8	105.8	108.7	111.7	111.7
80°	64.6	70.5	73.5	76.4	79.3	82.3	85.2	88.1	91.1	91.1
82.5°	44.1	52.9	52.9	55.8	58.8	64.6	67.6	70.5	73.5	73.5
85°	29.4	35.3	38.2	41.1	44.1	50.0	52.9	55.8	58.8	58.8
87.5°	11.8	20.6	23.5	26.4	32.3	35.3	38.2	41.1	44.1	44.1
90°	2.9	11.8	14.7	17.6	23.5	26.4	29.4	32.3	32.3	32.3
92.5°	38.2	44.1	44.1	50.0	61.7	94.0	117.5	123.4	120.5	111.7
95°	88.1	99.9	105.8	108.7	144.0	252.7	384.9	464.2	505.4	517.1
97.5°	152.8	167.5	176.3	170.4	217.4	361.4	570.0	711.1	787.5	808.0
100°	223.3	238.0	249.8	235.1	285.0	446.6	737.5	919.7	1034.3	1066.6
102.5°	302.6	317.3	326.1	299.7	349.7	528.9	878.5	1110.7	1254.6	1310.5
105°	379.0	393.7	399.6	361.4	405.5	608.2	981.4	1284.0	1454.4	1504.4
107.5°	455.4	464.2	464.2	426.0	455.4	672.9	1040.1	1422.1	1621.9	1674.8
110°	525.9	528.9	525.9	490.7	508.3	725.7	1043.1	1510.3	1751.2	1833.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	581.8	587.6	575.9	552.4	552.4	755.1	1043.1	1510.3	1807.0	1901.0
115°	622.9	637.6	625.8	614.1	608.2	772.8	1060.7	1428.0	1754.1	1865.8
117.5°	643.5	672.9	675.8	664.0	664.0	790.4	1066.6	1313.4	1607.2	1715.9
120°	655.2	690.5	722.8	711.1	716.9	808.0	1049.0	1245.8	1442.7	1522.0
122.5°	672.9	690.5	746.3	743.4	763.9	825.6	1031.3	1216.4	1354.5	1386.9
125°	696.4	699.3	743.4	763.9	796.3	866.8	1028.4	1210.6	1316.3	1345.7
127.5°	716.9	722.8	749.3	778.6	822.7	896.2	1007.8	1192.9	1278.1	1319.3
130°	743.4	749.3	769.8	802.1	840.3	905.0	993.1	1137.1	1269.3	1307.5
132.5°	769.8	778.6	799.2	834.5	869.7	925.5	972.6	1040.1	1134.2	1151.8
135°	799.2	808.0	825.6	860.9	896.2	934.4	990.2	1028.4	1075.4	1096.0
137.5°	825.6	834.5	849.2	881.5	916.7	937.3	981.4	1028.4	1063.6	1084.2
140°	858.0	863.8	878.5	905.0	940.2	952.0	969.6	990.2	1016.6	1031.3
142.5°	881.5	887.4	899.1	922.6	954.9	969.6	975.5	981.4	990.2	990.2
145°	905.0	907.9	919.7	937.3	972.6	990.2	990.2	993.1	999.0	999.0
147.5°	928.5	928.5	937.3	952.0	984.3	1004.9	1010.8	1007.8	1010.8	1013.7
150°	949.1	946.1	952.0	966.7	993.1	1010.8	1022.5	1025.4	1025.4	1028.4
152.5°	963.7	963.7	963.7	975.5	999.0	1016.6	1025.4	1034.3	1040.1	1043.1
155°	981.4	978.4	978.4	984.3	1004.9	1025.4	1031.3	1037.2	1043.1	1046.0
157.5°	996.1	996.1	993.1	996.1	1007.8	1025.4	1037.2	1040.1	1046.0	1049.0
160°	1007.8	1004.9	1004.9	1004.9	1013.7	1025.4	1031.3	1037.2	1043.1	1043.1
162.5°	1016.6	1016.6	1013.7	1013.7	1022.5	1028.4	1025.4	1025.4	1031.3	1034.3
165°	1022.5	1025.4	1022.5	1022.5	1028.4	1034.3	1031.3	1025.4	1025.4	1028.4
167.5°	1031.3	1031.3	1031.3	1028.4	1031.3	1037.2	1034.3	1031.3	1031.3	1031.3
170°	1034.3	1034.3	1034.3	1034.3	1034.3	1040.1	1034.3	1031.3	1031.3	1031.3
172.5°	1037.2	1034.3	1034.3	1034.3	1034.3	1040.1	1034.3	1028.4	1025.4	1025.4
175°	1037.2	1037.2	1034.3	1034.3	1034.3	1037.2	1031.3	1028.4	1022.5	1019.6
177.5°	1037.2	1034.3	1031.3	1025.4	1025.4	1031.3	1025.4	1019.6	1016.6	1016.6
180°	1022.5	1022.5	1022.5	1022.5	1022.5	1022.5	1022.5	1022.5	1022.5	1022.5

(END OF REPORT)