

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: P183764

Luminaire Tested: **I2-WS-4L40-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183764
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-4L40-1D-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)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

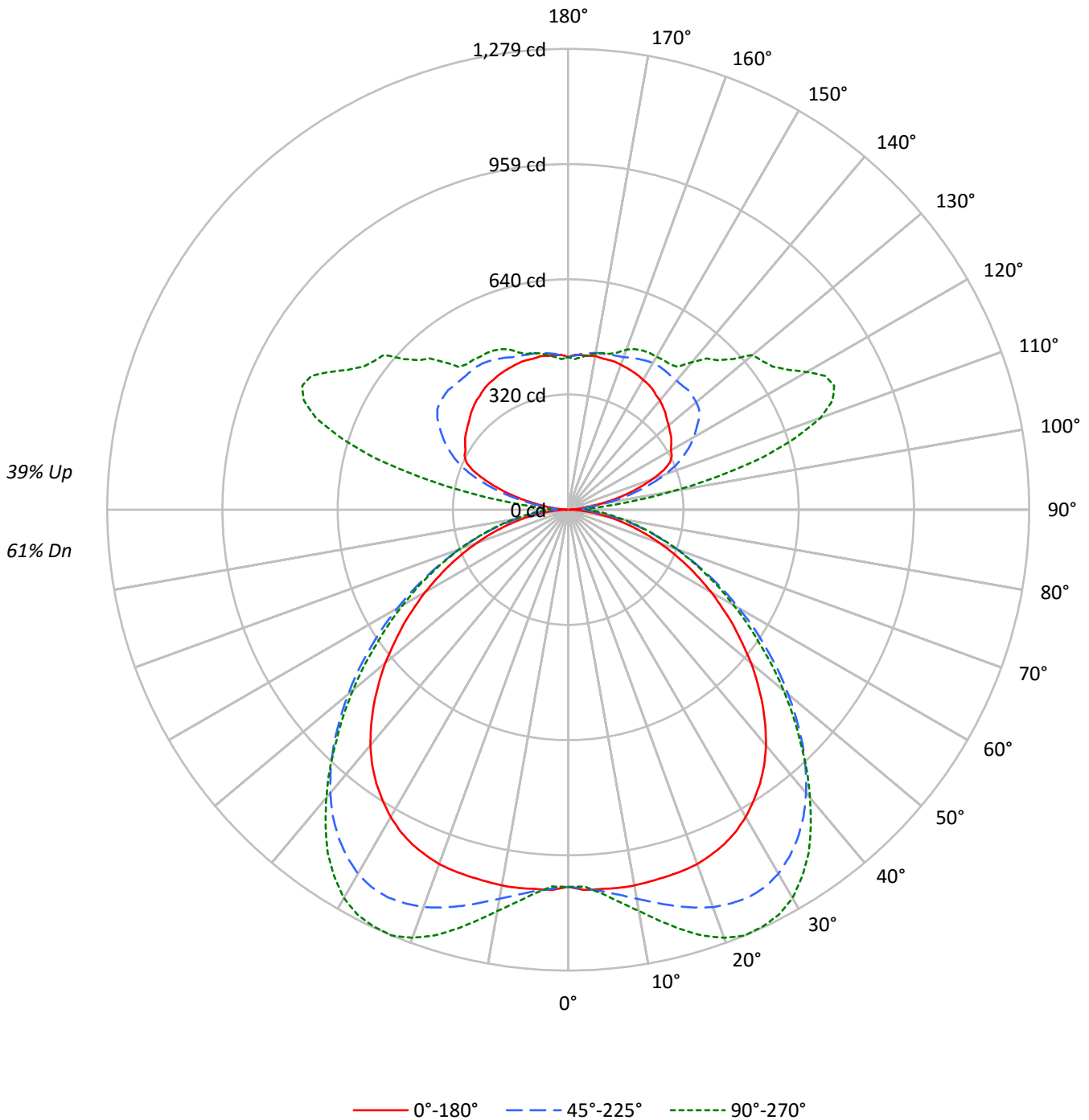
Lumens per Lamp: N/A
Luminaire Lumens: 5903.7 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Direct

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°	8384	8384	8384
5°	8452	8233	8197
10°	8527	8282	8377
15°	8607	8456	8698
20°	8737	8643	8966
25°	8815	8721	8963
30°	8813	8629	8717
35°	8719	8332	8187
40°	8511	7871	7447
45°	8159	7262	6631
50°	7728	6544	5844
55°	7211	5782	5049
60°	6662	5002	4323
65°	6087	4203	3638
70°	5447	3437	2983
75°	4720	2675	2317
80°	3861	1897	1705
85°	2595	1202	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	1.7
10°-20°	321.4	5.4
20°-30°	536.7	9.1
30°-40°	670.8	11.4
40°-50°	675.4	11.4
50°-60°	571.6	9.7
60°-70°	408.2	6.9
70°-80°	232.0	3.9
80°-90°	86.0	1.5
90°-100°	74.6	1.3
100°-110°	300.7	5.1
110°-120°	449.5	7.6
120°-130°	436.8	7.4
130°-140°	369.1	6.3
140°-150°	289.4	4.9
150°-160°	211.9	3.6
160°-170°	125.9	2.1
170°-180°	41.4	0.7
0°-30°	960.4	16.3
0°-40°	1631.2	27.6
0°-60°	2878.2	48.8
0°-90°	3604.4	61.1
90°-120°	824.9	14.0
90°-150°	1920.1	32.5
90°-180°	2299.0	38.9
0°-180°	5903.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1056	1050	1063	1066	1069	101
15°	1054	1070	1138	1190	1205	299
25°	1024	1071	1186	1257	1277	472
35°	928	993	1111	1158	1163	579
45°	762	826	919	923	910	587
55°	559	609	671	666	648	500
65°	361	392	428	429	421	358
75°	186	204	226	233	230	198
85°	47	59	78	91	94	52
90°	2	19	36	46	50	5
95°	25	27	42	79	92	34
105°	168	170	199	439	557	177
115°	312	314	353	618	814	300
125°	349	386	443	604	693	312
135°	381	411	470	538	586	294
145°	408	432	470	486	492	255
155°	423	435	461	481	487	196
165°	430	439	445	448	448	122
175°	430	430	434	431	426	41
180°	423	423	423	423	423	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1056.5	1051.6	1046.6	1046.6	1046.6	1059.0	1054.0	1051.6	1046.6	1046.6
5°	1056.5	1051.6	1049.1	1051.6	1056.5	1068.9	1066.4	1066.4	1068.9	1068.9
7.5°	1059.0	1054.0	1051.6	1059.0	1068.9	1086.2	1088.7	1093.6	1096.1	1098.6
10°	1059.0	1054.0	1056.5	1068.9	1083.7	1108.5	1115.9	1123.3	1128.3	1130.7
12.5°	1056.5	1054.0	1061.5	1078.8	1101.1	1133.2	1145.6	1158.0	1165.4	1167.9
15°	1054.0	1054.0	1063.9	1088.7	1118.4	1158.0	1175.3	1195.1	1205.0	1205.0
17.5°	1051.6	1051.6	1068.9	1098.6	1135.7	1180.2	1205.0	1224.8	1237.1	1239.6
20°	1046.6	1046.6	1068.9	1106.0	1150.5	1197.6	1224.8	1247.0	1261.9	1264.4
22.5°	1036.7	1041.7	1066.4	1108.5	1158.0	1207.4	1237.1	1259.4	1274.3	1279.2
25°	1024.4	1029.3	1059.0	1106.0	1160.4	1212.4	1242.1	1261.9	1274.3	1276.7
27.5°	1007.0	1014.5	1046.6	1098.6	1155.5	1207.4	1234.7	1252.0	1261.9	1266.8
30°	984.8	994.7	1029.3	1083.7	1143.1	1190.1	1217.3	1232.2	1239.6	1244.6
32.5°	957.5	967.4	1007.0	1061.5	1120.8	1162.9	1187.7	1200.0	1202.5	1207.4
35°	927.9	937.8	979.8	1034.2	1091.2	1130.7	1150.5	1160.4	1158.0	1162.9
37.5°	893.2	903.1	945.2	999.6	1054.0	1091.2	1106.0	1108.5	1103.5	1106.0
40°	853.6	863.5	905.6	960.0	1009.5	1044.1	1051.6	1046.6	1041.7	1044.1
42.5°	809.1	821.5	861.0	913.0	962.5	987.2	994.7	987.2	977.3	979.8
45°	762.1	774.4	814.0	863.5	908.1	930.3	930.3	920.4	913.0	910.5
47.5°	712.6	725.0	762.1	811.6	848.7	868.5	868.5	858.6	846.2	846.2
50°	663.1	673.0	707.6	757.1	786.8	806.6	801.7	791.8	781.9	779.4
52.5°	608.7	623.5	653.2	700.2	727.4	742.3	739.8	729.9	717.5	715.1
55°	559.2	571.6	598.8	638.4	663.1	678.0	673.0	663.1	653.2	648.3
57.5°	507.2	519.6	546.8	579.0	603.7	616.1	611.1	601.2	593.8	588.9
60°	457.7	467.6	492.4	519.6	541.9	551.8	549.3	541.9	534.4	529.5
62.5°	408.3	418.2	437.9	462.7	482.5	492.4	489.9	485.0	477.5	475.1
65°	361.2	368.7	386.0	408.3	423.1	433.0	433.0	428.1	423.1	420.6
67.5°	314.2	321.7	336.5	356.3	368.7	378.6	381.0	376.1	371.1	368.7
70°	269.7	277.1	287.0	304.3	316.7	326.6	329.1	326.6	321.7	321.7
72.5°	227.6	232.6	242.5	254.9	269.7	274.6	277.1	277.1	277.1	274.6
75°	185.6	190.5	200.4	212.8	222.7	230.1	232.6	232.6	230.1	230.1
77.5°	146.0	153.4	158.4	170.7	180.6	185.6	190.5	190.5	190.5	190.5
80°	111.3	116.3	121.2	131.1	138.6	146.0	150.9	153.4	153.4	153.4
82.5°	79.2	84.1	86.6	96.5	103.9	111.3	116.3	121.2	121.2	121.2
85°	47.0	52.0	56.9	66.8	74.2	81.7	89.1	91.5	94.0	94.0
87.5°	19.8	27.2	32.2	42.1	52.0	59.4	64.3	66.8	69.3	69.3
90°	2.5	9.9	17.3	24.7	32.2	39.6	44.5	47.0	49.5	49.5
92.5°	9.9	12.4	14.8	19.8	27.2	34.6	42.1	44.5	49.5	49.5
95°	24.7	29.7	27.2	27.2	32.2	52.0	71.8	81.7	89.1	91.5
97.5°	52.0	54.4	54.4	52.0	56.9	81.7	128.7	155.9	173.2	175.7
100°	84.1	89.1	89.1	84.1	91.5	126.2	207.8	254.9	284.5	294.4
102.5°	126.2	128.7	131.1	121.2	128.7	178.1	287.0	366.2	410.7	423.1
105°	168.3	173.2	173.2	160.8	168.3	230.1	351.3	467.6	532.0	556.7
107.5°	210.3	215.3	212.8	197.9	205.4	282.1	400.8	546.8	633.4	658.2
110°	249.9	254.9	249.9	237.5	245.0	329.1	435.5	608.7	707.6	744.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	287.0	289.5	284.5	277.1	282.1	366.2	475.1	643.3	759.6	794.2
115°	311.8	319.2	314.2	311.8	316.7	388.5	512.2	653.2	776.9	814.0
117.5°	324.1	339.0	343.9	341.5	351.3	408.3	536.9	643.3	764.6	804.1
120°	329.1	348.9	366.2	368.7	378.6	425.6	544.3	640.8	727.4	764.6
122.5°	339.0	351.3	381.0	388.5	403.3	440.4	541.9	633.4	702.7	722.5
125°	348.9	353.8	381.0	400.8	423.1	462.7	539.4	626.0	680.4	692.8
127.5°	356.3	363.7	381.0	405.8	437.9	477.5	532.0	618.6	660.6	678.0
130°	363.7	371.1	388.5	413.2	442.9	485.0	529.5	596.3	653.2	668.1
132.5°	371.1	381.0	398.4	420.6	450.3	485.0	519.6	561.7	608.7	618.6
135°	381.0	390.9	405.8	428.1	455.3	485.0	519.6	544.3	571.6	586.4
137.5°	388.5	398.4	410.7	435.5	457.7	477.5	504.8	534.4	556.7	569.1
140°	395.9	405.8	418.2	440.4	460.2	475.1	489.9	504.8	522.1	534.4
142.5°	400.8	410.7	423.1	442.9	462.7	472.6	482.5	489.9	497.3	499.8
145°	408.3	415.7	428.1	442.9	465.2	475.1	482.5	487.4	492.4	492.4
147.5°	413.2	418.2	430.5	442.9	465.2	477.5	482.5	487.4	489.9	492.4
150°	415.7	420.6	430.5	442.9	462.7	477.5	482.5	487.4	487.4	489.9
152.5°	420.6	423.1	433.0	442.9	457.7	475.1	480.0	485.0	489.9	489.9
155°	423.1	425.6	433.0	440.4	452.8	470.1	477.5	482.5	485.0	487.4
157.5°	425.6	428.1	435.5	440.4	450.3	462.7	472.6	477.5	482.5	482.5
160°	428.1	430.5	435.5	440.4	447.8	452.8	460.2	467.6	472.6	472.6
162.5°	430.5	433.0	437.9	440.4	445.4	450.3	452.8	452.8	457.7	457.7
165°	430.5	433.0	437.9	440.4	442.9	447.8	447.8	447.8	447.8	447.8
167.5°	430.5	433.0	435.5	437.9	442.9	445.4	445.4	445.4	445.4	445.4
170°	433.0	433.0	435.5	437.9	440.4	442.9	440.4	440.4	440.4	440.4
172.5°	430.5	430.5	433.0	435.5	437.9	437.9	437.9	435.5	435.5	433.0
175°	430.5	430.5	430.5	430.5	433.0	435.5	433.0	430.5	428.1	425.6
177.5°	430.5	430.5	428.1	428.1	428.1	428.1	425.6	423.1	420.6	418.2
180°	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1

(END OF REPORT)