

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: P183731

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183731
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-1L40-1D-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: 2916.4 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

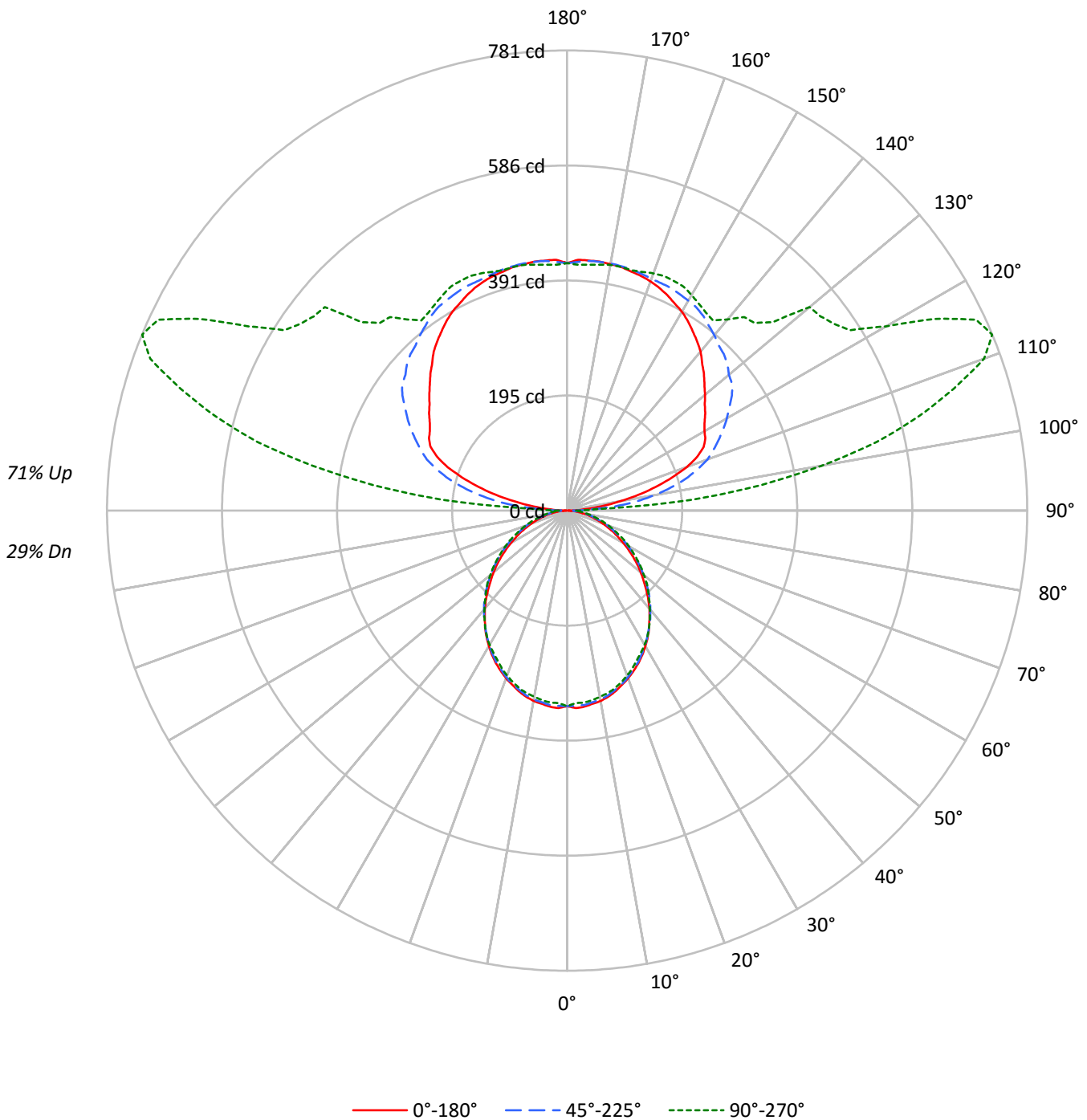
Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2658	2658	2658
5°	2674	2566	2508
10°	2642	2462	2378
15°	2592	2339	2256
20°	2529	2217	2113
25°	2461	2089	1965
30°	2376	1955	1843
35°	2279	1814	1707
40°	2166	1683	1558
45°	2028	1545	1415
50°	1899	1387	1275
55°	1759	1238	1128
60°	1598	1082	986
65°	1465	918	835
70°	1293	767	705
75°	1134	599	559
80°	919	443	416
85°	668	298	301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	1.1
10°-20°	88.6	3.0
20°-30°	130.3	4.5
30°-40°	151.3	5.2
40°-50°	149.2	5.1
50°-60°	127.3	4.4
60°-70°	92.7	3.2
70°-80°	54.1	1.9
80°-90°	21.5	0.7
90°-100°	114.7	3.9
100°-110°	323.6	11.1
110°-120°	389.2	13.3
120°-130°	345.9	11.9
130°-140°	296.8	10.2
140°-150°	248.2	8.5
150°-160°	191.7	6.6
160°-170°	119.5	4.1
170°-180°	40.4	1.4
0°-30°	250.2	8.6
0°-40°	401.5	13.8
0°-60°	677.9	23.2
0°-90°	846.3	29.0
90°-120°	827.4	28.4
90°-150°	1718.4	58.9
90°-180°	2070.0	71.0
0°-180°	2916.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	332	332	332	332	332	
5°	334	330	331	330	327	32
15°	317	315	315	314	312	89
25°	286	283	284	282	280	132
35°	242	240	242	244	242	151
45°	189	191	196	195	194	146
55°	136	140	144	145	145	122
65°	87	91	94	96	96	86
75°	45	48	51	54	56	47
85°	12	16	19	23	24	12
90°	1	6	10	13	13	3
95°	36	44	81	183	212	41
105°	156	160	208	496	618	164
115°	256	256	284	549	766	248
125°	286	307	342	478	553	256
135°	328	343	376	418	450	254
145°	372	380	403	408	410	233
155°	403	402	417	425	430	186
165°	420	420	424	422	422	119
175°	426	425	425	423	419	41
180°	420	420	420	420	420	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8
2.5°	335.5	333.0	331.8	330.6	330.6	333.0	331.8	330.6	328.2	327.0
5°	334.2	331.8	330.6	329.4	330.6	331.8	330.6	329.4	328.2	327.0
7.5°	330.6	329.4	327.0	327.0	327.0	329.4	327.0	327.0	325.8	324.6
10°	328.2	325.8	324.6	324.6	324.6	327.0	324.6	323.4	322.2	321.0
12.5°	323.4	321.0	319.8	319.8	319.8	322.2	319.8	318.6	317.4	317.4
15°	317.4	316.1	314.9	313.7	313.7	316.1	314.9	313.7	312.5	312.5
17.5°	310.1	308.9	307.7	307.7	307.7	310.1	307.7	306.5	305.3	305.3
20°	302.9	301.7	300.5	300.5	300.5	301.7	300.5	299.3	298.0	298.0
22.5°	294.4	293.2	292.0	292.0	292.0	293.2	292.0	289.6	289.6	289.6
25°	286.0	284.8	283.6	282.4	283.6	284.8	282.4	281.2	279.9	279.9
27.5°	276.3	275.1	273.9	272.7	273.9	275.1	273.9	271.5	271.5	271.5
30°	265.5	264.3	263.1	263.1	264.3	264.3	263.1	263.1	263.1	263.1
32.5°	254.6	253.4	252.2	252.2	253.4	253.4	254.6	254.6	253.4	253.4
35°	242.5	241.3	240.1	240.1	241.3	242.5	243.7	243.7	243.7	242.5
37.5°	229.3	229.3	228.1	228.1	230.5	232.9	232.9	231.7	231.7	230.5
40°	217.2	216.0	216.0	216.0	218.4	220.8	220.8	219.6	218.4	218.4
42.5°	203.9	203.9	203.9	203.9	207.5	208.8	207.5	207.5	206.3	206.3
45°	189.4	190.7	190.7	190.7	195.5	195.5	195.5	194.3	195.5	194.3
47.5°	176.2	177.4	177.4	179.8	182.2	182.2	182.2	183.4	183.4	183.4
50°	162.9	164.1	164.1	167.7	168.9	168.9	170.1	170.1	170.1	170.1
52.5°	149.6	149.6	150.8	154.5	155.7	156.9	156.9	158.1	158.1	158.1
55°	136.4	137.6	138.8	142.4	142.4	144.8	144.8	144.8	146.0	144.8
57.5°	123.1	124.3	125.5	127.9	130.3	131.5	131.5	132.7	132.7	132.7
60°	109.8	112.2	114.6	115.8	118.3	118.3	119.5	120.7	120.7	120.7
62.5°	97.7	100.2	102.6	103.8	105.0	106.2	107.4	108.6	109.8	109.8
65°	86.9	88.1	90.5	91.7	92.9	94.1	95.3	96.5	97.7	96.5
67.5°	74.8	77.2	79.6	80.8	82.1	83.3	84.5	85.7	85.7	85.7
70°	64.0	66.4	68.8	70.0	71.2	72.4	73.6	74.8	74.8	76.0
72.5°	54.3	56.7	57.9	59.1	60.3	61.5	62.7	64.0	65.2	65.2
75°	44.6	47.1	48.3	48.3	49.5	51.9	53.1	54.3	54.3	55.5
77.5°	35.0	37.4	38.6	39.8	41.0	42.2	43.4	44.6	45.9	45.9
80°	26.5	29.0	30.2	31.4	32.6	33.8	35.0	36.2	37.4	37.4
82.5°	18.1	21.7	21.7	22.9	24.1	26.5	27.8	29.0	30.2	30.2
85°	12.1	14.5	15.7	16.9	18.1	20.5	21.7	22.9	24.1	24.1
87.5°	4.8	8.4	9.7	10.9	13.3	14.5	15.7	16.9	18.1	18.1
90°	1.2	4.8	6.0	7.2	9.7	10.9	12.1	13.3	13.3	13.3
92.5°	15.7	18.1	18.1	20.5	25.3	38.6	48.3	50.7	49.5	45.9
95°	36.2	41.0	43.4	44.6	59.1	103.8	158.1	190.7	207.5	212.4
97.5°	62.7	68.8	72.4	70.0	89.3	148.4	234.1	292.0	323.4	331.8
100°	91.7	97.7	102.6	96.5	117.0	183.4	302.9	377.7	424.7	438.0
102.5°	124.3	130.3	133.9	123.1	143.6	217.2	360.8	456.1	515.2	538.2
105°	155.7	161.7	164.1	148.4	166.5	249.8	403.0	527.3	597.3	617.8
107.5°	187.0	190.7	190.7	175.0	187.0	276.3	427.2	584.0	666.1	687.8
110°	216.0	217.2	216.0	201.5	208.8	298.0	428.4	620.2	719.2	753.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	238.9	241.3	236.5	226.9	226.9	310.1	428.4	620.2	742.1	780.7
115°	255.8	261.8	257.0	252.2	249.8	317.4	435.6	586.4	720.4	766.2
117.5°	264.3	276.3	277.5	272.7	272.7	324.6	438.0	539.4	660.0	704.7
120°	269.1	283.6	296.8	292.0	294.4	331.8	430.8	511.6	592.5	625.1
122.5°	276.3	283.6	306.5	305.3	313.7	339.1	423.5	499.6	556.3	569.5
125°	286.0	287.2	305.3	313.7	327.0	356.0	422.3	497.1	540.6	552.7
127.5°	294.4	296.8	307.7	319.8	337.9	368.0	413.9	489.9	524.9	541.8
130°	305.3	307.7	316.1	329.4	345.1	371.7	407.9	467.0	521.3	537.0
132.5°	316.1	319.8	328.2	342.7	357.2	380.1	399.4	427.2	465.8	473.0
135°	328.2	331.8	339.1	353.6	368.0	383.7	406.6	422.3	441.6	450.1
137.5°	339.1	342.7	348.7	362.0	376.5	384.9	403.0	422.3	436.8	445.3
140°	352.3	354.8	360.8	371.7	386.1	391.0	398.2	406.6	417.5	423.5
142.5°	362.0	364.4	369.2	378.9	392.2	398.2	400.6	403.0	406.6	406.6
145°	371.7	372.9	377.7	384.9	399.4	406.6	406.6	407.9	410.3	410.3
147.5°	381.3	381.3	384.9	391.0	404.2	412.7	415.1	413.9	415.1	416.3
150°	389.8	388.5	391.0	397.0	407.9	415.1	419.9	421.1	421.1	422.3
152.5°	395.8	395.8	395.8	400.6	410.3	417.5	421.1	424.7	427.2	428.4
155°	403.0	401.8	401.8	404.2	412.7	421.1	423.5	426.0	428.4	429.6
157.5°	409.1	409.1	407.9	409.1	413.9	421.1	426.0	427.2	429.6	430.8
160°	413.9	412.7	412.7	412.7	416.3	421.1	423.5	426.0	428.4	428.4
162.5°	417.5	417.5	416.3	416.3	419.9	422.3	421.1	421.1	423.5	424.7
165°	419.9	421.1	419.9	419.9	422.3	424.7	423.5	421.1	421.1	422.3
167.5°	423.5	423.5	423.5	422.3	423.5	426.0	424.7	423.5	423.5	423.5
170°	424.7	424.7	424.7	424.7	424.7	427.2	424.7	423.5	423.5	423.5
172.5°	426.0	424.7	424.7	424.7	424.7	427.2	424.7	422.3	421.1	421.1
175°	426.0	426.0	424.7	424.7	424.7	426.0	423.5	422.3	419.9	418.7
177.5°	426.0	424.7	423.5	421.1	421.1	423.5	421.1	418.7	417.5	417.5
180°	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9

(END OF REPORT)