

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: P183746

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26978)
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
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.
Light Source: (336)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

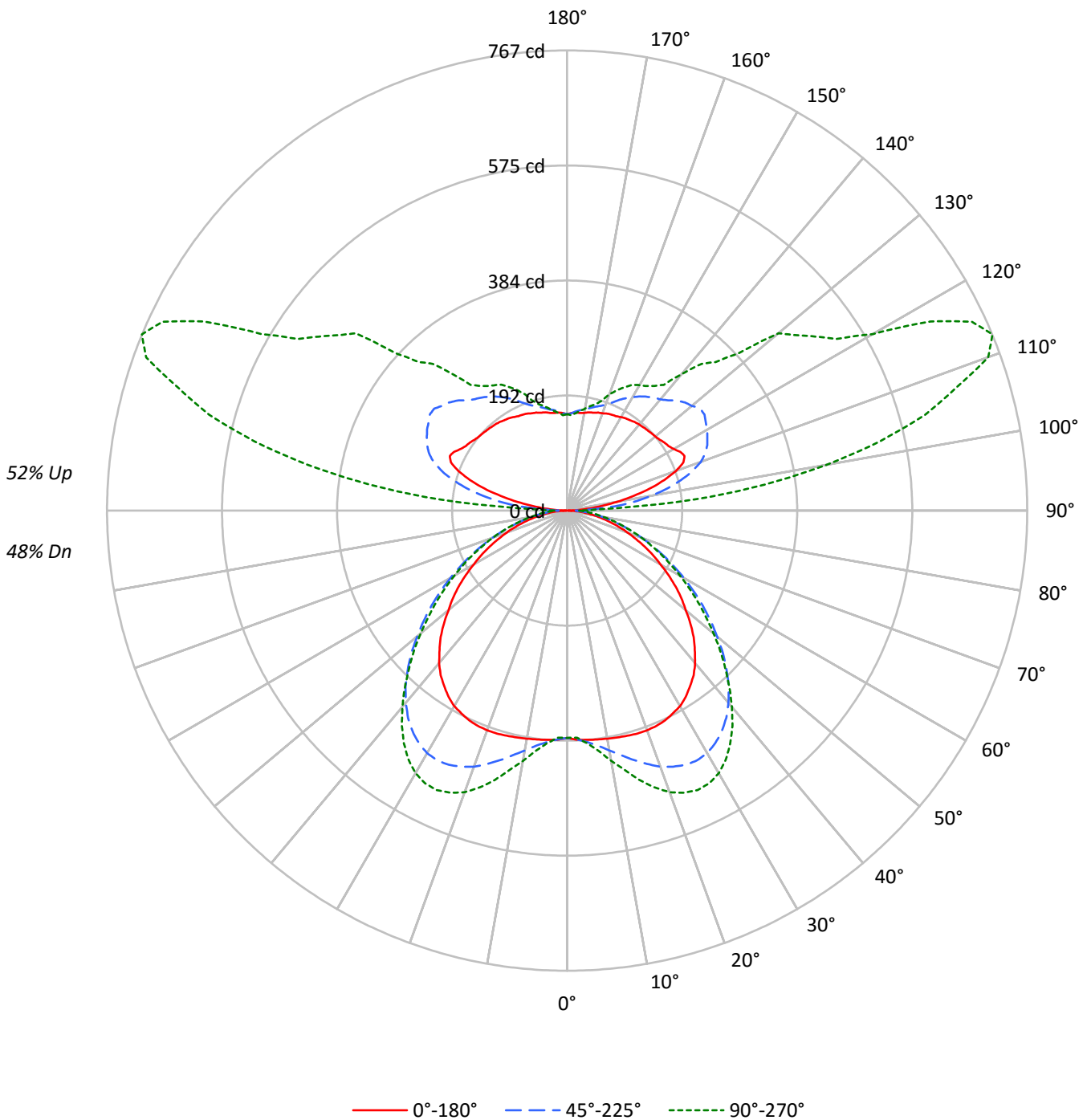
Lumens per Lamp: N/A
Luminaire Lumens: 3022.5 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.69 / 1.63
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: General Diffuse

Input Watts (W): 26.1
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	107	107	107	107	98	98	98	98	82	82	82		67	67	67		54	54	54	48
1	97	93	89	85	89	85	82	79	72	69	67		59	57	56		47	46	45	40
2	88	81	75	69	81	74	69	64	63	59	55		52	49	46		42	40	38	33
3	80	71	63	57	74	65	59	54	55	50	46		45	42	39		37	34	32	28
4	73	62	54	48	67	58	51	45	49	43	39		40	36	33		33	30	27	24
5	67	56	47	41	62	51	44	39	43	38	34		36	32	29		29	26	24	20
6	62	50	41	36	57	46	39	33	39	33	29		32	28	25		26	23	21	18
7	57	45	37	31	52	41	34	29	35	30	25		29	25	22		24	21	18	16
8	53	40	33	27	48	38	31	26	32	26	22		27	22	19		22	19	16	14
9	49	37	29	24	45	34	27	23	29	24	20		25	20	17		20	17	15	12
10	46	34	26	22	42	31	25	20	27	22	18		23	18	15		19	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3034	3034	3034
5°	3069	3000	2988
10°	3108	3067	3137
15°	3172	3199	3353
20°	3253	3344	3541
25°	3322	3436	3608
30°	3369	3453	3540
35°	3355	3370	3338
40°	3308	3205	3046
45°	3190	2969	2715
50°	3009	2681	2388
55°	2847	2377	2076
60°	2617	2053	1773
65°	2400	1735	1492
70°	2169	1411	1219
75°	1872	1091	948
80°	1547	780	684
85°	1132	494	468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	1.2
10°-20°	121.8	4.0
20°-30°	210.8	7.0
30°-40°	269.5	8.9
40°-50°	273.6	9.1
50°-60°	232.0	7.7
60°-70°	166.1	5.5
70°-80°	94.4	3.1
80°-90°	35.3	1.2
90°-100°	112.5	3.7
100°-110°	312.5	10.3
110°-120°	361.3	12.0
120°-130°	287.0	9.5
130°-140°	206.6	6.8
140°-150°	141.6	4.7
150°-160°	93.6	3.1
160°-170°	50.8	1.7
170°-180°	15.9	0.5
0°-30°	370.0	12.2
0°-40°	639.4	21.2
0°-60°	1145.0	37.9
0°-90°	1440.7	47.7
90°-120°	786.3	26.0
90°-150°	1421.5	47.0
90°-180°	1582.0	52.3
0°-180°	3022.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	379	379	379	379	379	
5°	384	382	387	390	390	37
15°	388	399	431	456	464	110
25°	386	411	467	503	514	178
35°	357	391	449	473	474	223
45°	298	330	376	380	373	229
55°	221	245	276	273	267	197
65°	142	158	177	176	172	141
75°	74	82	92	94	94	79
85°	20	25	32	37	37	22
90°	1	9	14	19	19	3
95°	33	41	78	179	215	38
105°	144	148	197	488	618	149
115°	216	223	258	528	744	208
125°	198	230	279	425	506	177
135°	189	211	259	317	350	147
145°	183	199	232	247	253	115
155°	176	182	203	220	227	82
165°	169	172	179	183	183	48
175°	164	164	166	166	163	16
180°	160	160	160	160	160	



TEST NUMBER: P183746

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	378.8	378.8	378.8	378.8	378.8	378.8	378.8	378.8	378.8	378.8
2.5°	382.4	381.2	378.8	378.8	380.0	383.6	382.4	381.2	380.0	378.8
5°	383.6	381.2	381.2	382.4	384.8	389.7	389.7	389.7	389.7	389.7
7.5°	384.8	383.6	383.6	387.3	390.9	399.3	400.5	402.9	404.1	404.1
10°	386.0	384.8	387.3	393.3	400.5	411.4	416.2	419.8	422.2	423.4
12.5°	387.3	387.3	390.9	399.3	410.2	424.7	431.9	437.9	441.5	442.7
15°	388.5	389.7	395.7	407.8	422.2	439.1	450.0	458.4	463.3	464.5
17.5°	389.7	390.9	399.3	413.8	431.9	453.6	465.7	476.5	482.6	483.8
20°	389.7	392.1	402.9	421.0	442.7	465.7	480.1	491.0	497.0	499.4
22.5°	388.5	390.9	404.1	425.9	450.0	474.1	489.8	500.7	507.9	509.1
25°	386.0	389.7	405.3	428.3	454.8	480.1	495.8	505.5	511.5	513.9
27.5°	381.2	386.0	402.9	428.3	457.2	481.4	497.0	505.5	510.3	512.7
30°	376.4	381.2	399.3	425.9	454.8	478.9	492.2	500.7	504.3	505.5
32.5°	368.0	374.0	392.1	419.8	448.8	470.5	483.8	489.8	492.2	492.2
35°	357.1	363.1	383.6	411.4	439.1	459.6	470.5	474.1	474.1	474.1
37.5°	346.2	352.3	371.6	399.3	425.9	445.2	453.6	454.8	453.6	452.4
40°	331.8	337.8	357.1	384.8	410.2	425.9	431.9	430.7	428.3	427.1
42.5°	314.9	320.9	341.4	366.7	392.1	405.3	407.8	405.3	401.7	400.5
45°	298.0	304.0	323.3	348.6	370.4	381.2	382.4	378.8	374.0	372.8
47.5°	278.7	284.7	302.8	328.1	347.4	357.1	355.9	352.3	347.4	346.2
50°	258.2	265.4	282.3	306.4	322.1	330.6	329.3	324.5	319.7	318.5
52.5°	240.1	246.1	261.8	283.5	298.0	304.0	302.8	298.0	293.2	291.9
55°	220.8	225.6	240.1	259.4	272.6	278.7	276.3	271.4	266.6	266.6
57.5°	200.3	205.1	218.4	235.2	247.3	252.1	249.7	246.1	242.5	241.3
60°	179.8	185.8	197.8	212.3	223.2	225.6	224.4	220.8	218.4	217.2
62.5°	161.7	166.5	177.3	189.4	197.8	202.7	200.3	197.8	194.2	194.2
65°	142.4	147.2	155.6	166.5	174.9	178.5	177.3	174.9	172.5	172.5
67.5°	124.3	127.9	136.3	146.0	152.0	155.6	154.4	153.2	150.8	150.8
70°	107.4	109.8	117.0	124.3	130.3	133.9	133.9	132.7	131.5	131.5
72.5°	90.5	92.9	98.9	105.0	109.8	113.4	114.6	112.2	112.2	112.2
75°	73.6	77.2	80.8	86.9	90.5	94.1	95.3	94.1	94.1	94.1
77.5°	59.1	61.5	65.1	70.0	72.4	76.0	77.2	77.2	77.2	77.2
80°	44.6	47.0	50.7	53.1	56.7	60.3	61.5	61.5	62.7	61.5
82.5°	32.6	33.8	36.2	39.8	42.2	45.8	48.3	48.3	49.5	49.5
85°	20.5	21.7	24.1	27.7	30.2	33.8	36.2	37.4	37.4	37.4
87.5°	8.4	12.1	14.5	18.1	20.5	24.1	26.5	27.7	27.7	27.7
90°	1.2	6.0	8.4	10.9	13.3	15.7	18.1	19.3	19.3	19.3
92.5°	13.3	16.9	18.1	20.5	26.5	37.4	48.3	50.7	53.1	53.1
95°	32.6	38.6	41.0	42.2	56.7	100.1	153.2	188.2	206.3	214.7
97.5°	57.9	63.9	67.6	65.1	83.2	141.1	228.0	285.9	320.9	331.8
100°	84.4	91.7	95.3	89.3	109.8	176.1	295.6	370.4	419.8	439.1
102.5°	113.4	120.6	124.3	113.4	132.7	208.7	351.1	448.8	509.1	534.4
105°	143.6	148.4	152.0	137.5	154.4	238.9	395.7	518.8	589.9	617.7
107.5°	170.1	173.7	176.1	161.7	173.7	264.2	416.2	574.2	658.7	679.2
110°	193.0	196.6	196.6	184.6	191.8	282.3	416.2	609.2	709.4	746.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	209.9	214.7	212.3	205.1	206.3	291.9	412.6	606.8	731.1	767.3
115°	215.9	224.4	223.2	222.0	223.2	291.9	412.6	565.8	702.1	744.3
117.5°	212.3	226.8	234.0	232.8	236.5	290.7	407.8	511.5	632.2	682.8
120°	205.1	223.2	241.3	242.5	248.5	290.7	393.3	478.9	556.1	588.7
122.5°	200.3	209.9	238.9	244.9	258.2	289.5	378.8	456.0	515.1	532.0
125°	197.8	201.5	225.6	243.7	261.8	296.8	368.0	444.0	492.2	505.5
127.5°	194.2	197.8	214.7	236.5	260.6	298.0	347.4	427.1	465.7	480.1
130°	191.8	196.6	209.9	230.4	254.5	288.3	330.6	392.1	446.4	459.6
132.5°	190.6	195.4	208.7	229.2	252.1	281.1	308.8	341.4	382.4	388.5
135°	189.4	194.2	206.3	225.6	247.3	271.4	300.4	322.1	342.6	349.9
137.5°	188.2	193.0	202.7	222.0	241.3	257.0	282.3	307.6	325.7	331.8
140°	187.0	190.6	201.5	218.4	236.5	247.3	260.6	275.1	288.3	296.8
142.5°	185.8	189.4	197.8	213.5	231.6	242.5	249.7	257.0	261.8	264.2
145°	183.4	187.0	195.4	208.7	225.6	237.7	243.7	248.5	252.1	253.3
147.5°	182.2	183.4	190.6	202.7	219.6	231.6	238.9	242.5	244.9	246.1
150°	179.8	181.0	187.0	197.8	212.3	224.4	232.8	238.9	240.1	241.3
152.5°	177.3	178.5	183.4	191.8	205.1	217.2	224.4	231.6	235.2	236.5
155°	176.1	176.1	179.8	187.0	197.8	208.7	215.9	222.0	225.6	226.8
157.5°	174.9	174.9	177.3	183.4	190.6	199.1	207.5	212.3	215.9	217.2
160°	172.5	172.5	174.9	179.8	184.6	190.6	196.6	202.7	206.3	206.3
162.5°	171.3	171.3	172.5	176.1	181.0	184.6	187.0	189.4	191.8	191.8
165°	168.9	170.1	171.3	173.7	177.3	181.0	182.2	183.4	183.4	183.4
167.5°	167.7	168.9	170.1	171.3	173.7	176.1	177.3	178.5	178.5	178.5
170°	165.3	166.5	167.7	170.1	170.1	172.5	172.5	173.7	173.7	172.5
172.5°	164.1	165.3	166.5	167.7	168.9	168.9	168.9	168.9	167.7	167.7
175°	164.1	164.1	164.1	165.3	165.3	166.5	166.5	165.3	164.1	162.9
177.5°	162.9	162.9	162.9	162.9	161.7	162.9	161.7	161.7	160.5	159.2
180°	160.5	160.5	160.5	160.5	160.5	160.5	160.5	160.5	160.5	160.5

(END OF REPORT)