

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: P183733

Luminaire Tested: **I2-WS-3L40-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183733
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-3L40-1D-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

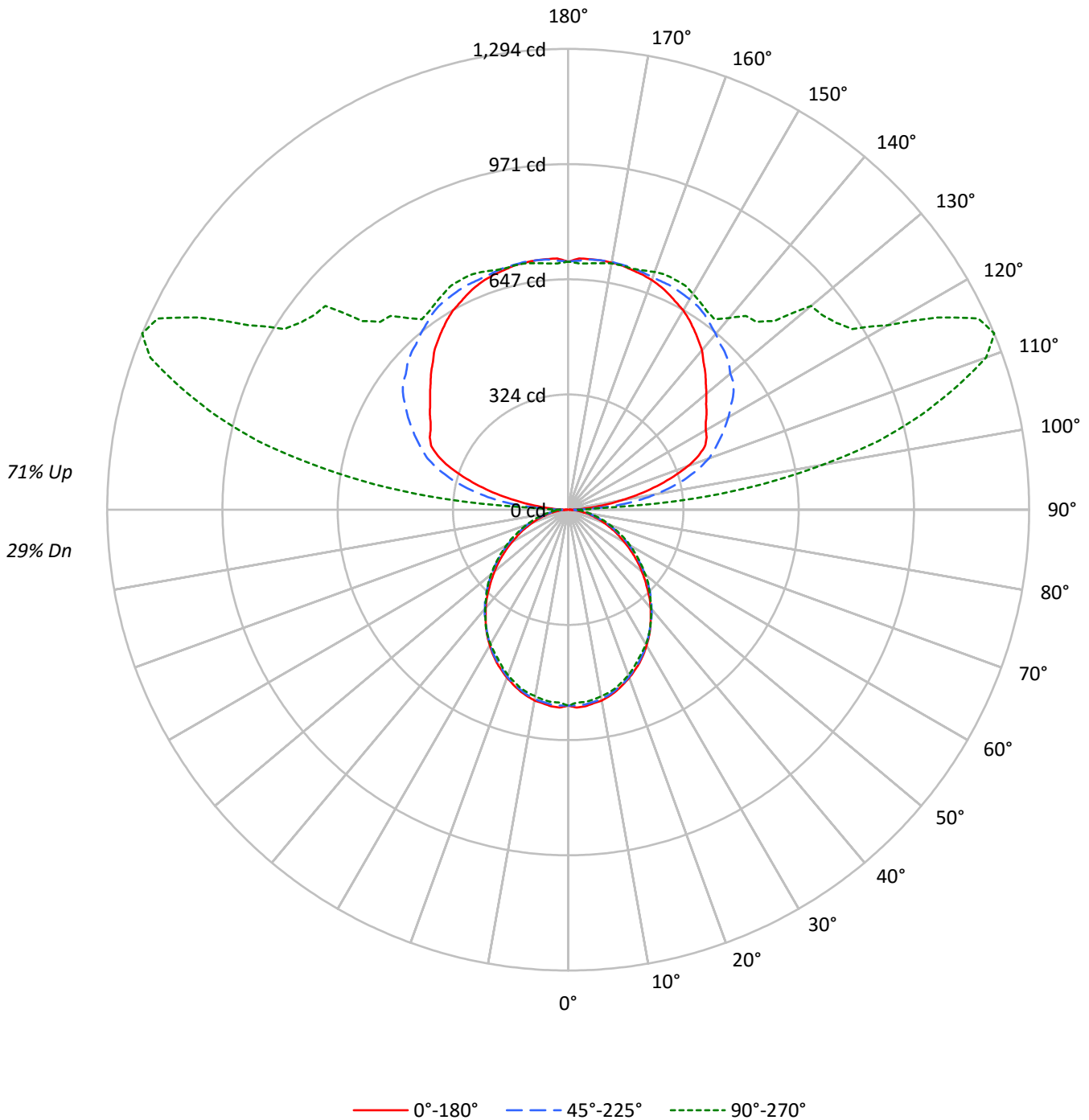
Lumens per Lamp: N/A
Luminaire Lumens: 4835.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

Input Watts (W): 46.3
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°	4407	4407	4407
5°	4433	4254	4157
10°	4381	4081	3942
15°	4296	3879	3740
20°	4191	3674	3504
25°	4080	3463	3258
30°	3939	3241	3054
35°	3778	3008	2831
40°	3590	2791	2583
45°	3363	2561	2346
50°	3148	2301	2115
55°	2916	2053	1870
60°	2649	1794	1634
65°	2427	1522	1384
70°	2141	1271	1168
75°	1882	993	927
80°	1526	733	689
85°	1104	494	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.1
10°-20°	146.8	3.0
20°-30°	216.0	4.5
30°-40°	250.9	5.2
40°-50°	247.4	5.1
50°-60°	211.0	4.4
60°-70°	153.7	3.2
70°-80°	89.7	1.9
80°-90°	35.6	0.7
90°-100°	190.1	3.9
100°-110°	536.4	11.1
110°-120°	645.2	13.3
120°-130°	573.4	11.9
130°-140°	492.2	10.2
140°-150°	411.6	8.5
150°-160°	317.9	6.6
160°-170°	198.1	4.1
170°-180°	67.1	1.4
0°-30°	414.7	8.6
0°-40°	665.6	13.8
0°-60°	1123.9	23.2
0°-90°	1403.0	29.0
90°-120°	1371.8	28.4
90°-150°	2849.0	58.9
90°-180°	3432.0	71.0
0°-180°	4835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	550	550	550	550	550	
5°	554	548	549	547	542	52
15°	526	522	522	521	518	148
25°	474	470	471	467	464	218
35°	402	398	401	404	402	251
45°	314	316	324	323	322	243
55°	226	232	238	240	240	202
65°	144	150	155	160	160	142
75°	74	80	84	90	92	78
85°	20	26	32	38	40	21
90°	2	10	17	22	22	5
95°	60	72	135	303	352	69
105°	258	266	345	823	1024	271
115°	424	424	470	910	1270	411
125°	474	510	566	793	916	425
135°	544	568	623	694	746	420
145°	616	629	668	676	680	386
155°	668	667	691	705	712	308
165°	696	696	702	699	700	197
175°	706	704	705	701	694	67
180°	696	696	696	696	696	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1
2.5°	556.1	552.1	550.1	548.1	548.1	552.1	550.1	548.1	544.1	542.1
5°	554.1	550.1	548.1	546.1	548.1	550.1	548.1	546.1	544.1	542.1
7.5°	548.1	546.1	542.1	542.1	542.1	546.1	542.1	542.1	540.1	538.1
10°	544.1	540.1	538.1	538.1	538.1	542.1	538.1	536.1	534.1	532.1
12.5°	536.1	532.1	530.1	530.1	530.1	534.1	530.1	528.1	526.1	526.1
15°	526.1	524.1	522.1	520.1	520.1	524.1	522.1	520.1	518.1	518.1
17.5°	514.1	512.1	510.1	510.1	510.1	514.1	510.1	508.1	506.1	506.1
20°	502.1	500.1	498.1	498.1	498.1	500.1	498.1	496.1	494.1	494.1
22.5°	488.1	486.1	484.1	484.1	484.1	486.1	484.1	480.1	480.1	480.1
25°	474.1	472.1	470.1	468.1	470.1	472.1	468.1	466.1	464.1	464.1
27.5°	458.1	456.1	454.1	452.1	454.1	456.1	454.1	450.1	450.1	450.1
30°	440.1	438.1	436.1	436.1	438.1	438.1	436.1	436.1	436.1	436.1
32.5°	422.1	420.1	418.1	418.1	420.1	420.1	422.1	422.1	420.1	420.1
35°	402.1	400.1	398.1	398.1	400.1	402.1	404.1	404.1	404.1	402.1
37.5°	380.1	380.1	378.1	378.1	382.1	386.1	386.1	384.1	384.1	382.1
40°	360.1	358.1	358.1	358.1	362.1	366.1	366.1	364.1	362.1	362.1
42.5°	338.1	338.1	338.1	338.1	344.1	346.1	344.1	344.1	342.1	342.1
45°	314.1	316.1	316.1	316.1	324.1	324.1	324.1	322.1	324.1	322.1
47.5°	292.1	294.1	294.1	298.1	302.1	302.1	302.1	304.1	304.1	304.1
50°	270.1	272.1	272.1	278.1	280.1	280.1	282.1	282.1	282.1	282.1
52.5°	248.1	248.1	250.1	256.1	258.1	260.1	260.1	262.1	262.1	262.1
55°	226.1	228.1	230.1	236.1	236.1	240.1	240.1	240.1	242.1	240.1
57.5°	204.1	206.1	208.1	212.1	216.1	218.1	218.1	220.1	220.1	220.1
60°	182.0	186.0	190.1	192.1	196.1	196.1	198.1	200.1	200.1	200.1
62.5°	162.0	166.0	170.0	172.0	174.0	176.0	178.0	180.0	182.0	182.0
65°	144.0	146.0	150.0	152.0	154.0	156.0	158.0	160.0	162.0	160.0
67.5°	124.0	128.0	132.0	134.0	136.0	138.0	140.0	142.0	142.0	142.0
70°	106.0	110.0	114.0	116.0	118.0	120.0	122.0	124.0	124.0	126.0
72.5°	90.0	94.0	96.0	98.0	100.0	102.0	104.0	106.0	108.0	108.0
75°	74.0	78.0	80.0	80.0	82.0	86.0	88.0	90.0	90.0	92.0
77.5°	58.0	62.0	64.0	66.0	68.0	70.0	72.0	74.0	76.0	76.0
80°	44.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0	62.0	62.0
82.5°	30.0	36.0	36.0	38.0	40.0	44.0	46.0	48.0	50.0	50.0
85°	20.0	24.0	26.0	28.0	30.0	34.0	36.0	38.0	40.0	40.0
87.5°	8.0	14.0	16.0	18.0	22.0	24.0	26.0	28.0	30.0	30.0
90°	2.0	8.0	10.0	12.0	16.0	18.0	20.0	22.0	22.0	22.0
92.5°	26.0	30.0	30.0	34.0	42.0	64.0	80.0	84.0	82.0	76.0
95°	60.0	68.0	72.0	74.0	98.0	172.0	262.1	316.1	344.1	352.1
97.5°	104.0	114.0	120.0	116.0	148.0	246.1	388.1	484.1	536.1	550.1
100°	152.0	162.0	170.0	160.0	194.1	304.1	502.1	626.2	704.2	726.2
102.5°	206.1	216.1	222.1	204.1	238.1	360.1	598.2	756.2	854.2	892.2
105°	258.1	268.1	272.1	246.1	276.1	414.1	668.2	874.2	990.3	1024.3
107.5°	310.1	316.1	316.1	290.1	310.1	458.1	708.2	968.3	1104.3	1140.3
110°	358.1	360.1	358.1	334.1	346.1	494.1	710.2	1028.3	1192.3	1248.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	396.1	400.1	392.1	376.1	376.1	514.1	710.2	1028.3	1230.3	1294.3
115°	424.1	434.1	426.1	418.1	414.1	526.1	722.2	972.3	1194.3	1270.3
117.5°	438.1	458.1	460.1	452.1	452.1	538.1	726.2	894.2	1094.3	1168.3
120°	446.1	470.1	492.1	484.1	488.1	550.1	714.2	848.2	982.3	1036.3
122.5°	458.1	470.1	508.1	506.1	520.1	562.1	702.2	828.2	922.2	944.3
125°	474.1	476.1	506.1	520.1	542.1	590.2	700.2	824.2	896.2	916.2
127.5°	488.1	492.1	510.1	530.1	560.1	610.2	686.2	812.2	870.2	898.2
130°	506.1	510.1	524.1	546.1	572.2	616.2	676.2	774.2	864.2	890.2
132.5°	524.1	530.1	544.1	568.2	592.2	630.2	662.2	708.2	772.2	784.2
135°	544.1	550.1	562.1	586.2	610.2	636.2	674.2	700.2	732.2	746.2
137.5°	562.1	568.2	578.2	600.2	624.2	638.2	668.2	700.2	724.2	738.2
140°	584.2	588.2	598.2	616.2	640.2	648.2	660.2	674.2	692.2	702.2
142.5°	600.2	604.2	612.2	628.2	650.2	660.2	664.2	668.2	674.2	674.2
145°	616.2	618.2	626.2	638.2	662.2	674.2	674.2	676.2	680.2	680.2
147.5°	632.2	632.2	638.2	648.2	670.2	684.2	688.2	686.2	688.2	690.2
150°	646.2	644.2	648.2	658.2	676.2	688.2	696.2	698.2	698.2	700.2
152.5°	656.2	656.2	656.2	664.2	680.2	692.2	698.2	704.2	708.2	710.2
155°	668.2	666.2	666.2	670.2	684.2	698.2	702.2	706.2	710.2	712.2
157.5°	678.2	678.2	676.2	678.2	686.2	698.2	706.2	708.2	712.2	714.2
160°	686.2	684.2	684.2	684.2	690.2	698.2	702.2	706.2	710.2	710.2
162.5°	692.2	692.2	690.2	690.2	696.2	700.2	698.2	698.2	702.2	704.2
165°	696.2	698.2	696.2	696.2	700.2	704.2	702.2	698.2	698.2	700.2
167.5°	702.2	702.2	702.2	700.2	702.2	706.2	704.2	702.2	702.2	702.2
170°	704.2	704.2	704.2	704.2	704.2	708.2	704.2	702.2	702.2	702.2
172.5°	706.2	704.2	704.2	704.2	704.2	708.2	704.2	700.2	698.2	698.2
175°	706.2	706.2	704.2	704.2	704.2	706.2	702.2	700.2	696.2	694.2
177.5°	706.2	704.2	702.2	698.2	698.2	702.2	698.2	694.2	692.2	692.2
180°	696.2	696.2	696.2	696.2	696.2	696.2	696.2	696.2	696.2	696.2

(END OF REPORT)