

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: P183734

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183734
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-4L40-1D-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

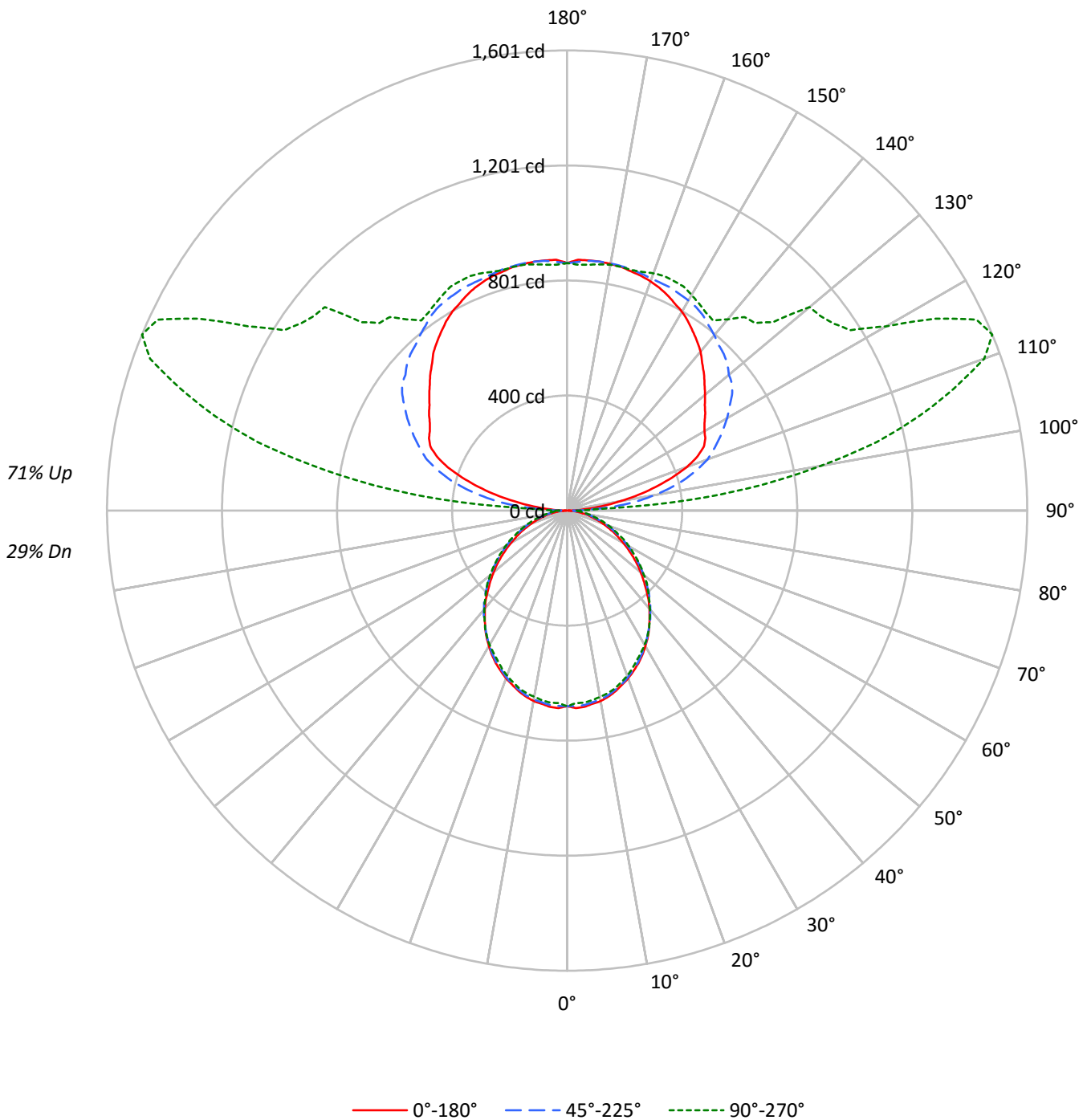
Lumens per Lamp: N/A
Luminaire Lumens: 5980.4 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

Input Watts (W): 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	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°	5451	5451	5451
5°	5483	5262	5142
10°	5419	5048	4876
15°	5314	4798	4626
20°	5185	4545	4334
25°	5046	4284	4030
30°	4872	4008	3778
35°	4674	3721	3502
40°	4441	3452	3195
45°	4159	3167	2902
50°	3893	2846	2616
55°	3605	2539	2312
60°	3278	2218	2020
65°	3003	1883	1713
70°	2648	1573	1445
75°	2330	1228	1146
80°	1887	907	853
85°	1364	611	619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	1.1
10°-20°	181.6	3.0
20°-30°	267.1	4.5
30°-40°	310.3	5.2
40°-50°	305.9	5.1
50°-60°	260.9	4.4
60°-70°	190.1	3.2
70°-80°	111.0	1.9
80°-90°	44.1	0.7
90°-100°	235.2	3.9
100°-110°	663.5	11.1
110°-120°	798.1	13.3
120°-130°	709.3	11.9
130°-140°	608.7	10.2
140°-150°	509.1	8.5
150°-160°	393.2	6.6
160°-170°	245.0	4.1
170°-180°	82.9	1.4
0°-30°	513.0	8.6
0°-40°	823.3	13.8
0°-60°	1390.1	23.2
0°-90°	1735.4	29.0
90°-120°	1696.8	28.4
90°-150°	3523.9	58.9
90°-180°	4245.0	71.0
0°-180°	5980.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	685	677	679	676	671	65
15°	651	645	646	644	641	183
25°	586	581	583	577	574	270
35°	497	492	496	500	497	310
45°	388	391	401	399	398	300
55°	280	286	294	297	297	250
65°	178	186	192	197	198	176
75°	92	99	104	111	114	97
85°	25	33	40	46	50	26
90°	2	13	21	27	27	6
95°	74	90	167	374	436	85
105°	319	328	427	1018	1267	336
115°	525	525	582	1125	1571	509
125°	586	630	700	981	1133	525
135°	673	703	771	858	923	520
145°	762	778	826	836	841	478
155°	826	825	855	872	881	381
165°	861	861	868	865	866	244
175°	874	871	872	867	859	83
180°	861	861	861	861	861	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	680.5	680.5	680.5	680.5	680.5	680.5	680.5	680.5	680.5	680.5
2.5°	687.9	682.9	680.5	678.0	678.0	682.9	680.5	678.0	673.0	670.6
5°	685.4	680.5	678.0	675.5	678.0	680.5	678.0	675.5	673.0	670.6
7.5°	678.0	675.5	670.6	670.6	670.6	675.5	670.6	670.6	668.1	665.6
10°	673.0	668.1	665.6	665.6	665.6	670.6	665.6	663.1	660.7	658.2
12.5°	663.1	658.2	655.7	655.7	655.7	660.7	655.7	653.2	650.8	650.8
15°	650.8	648.3	645.8	643.4	643.4	648.3	645.8	643.4	640.9	640.9
17.5°	635.9	633.5	631.0	631.0	631.0	635.9	631.0	628.5	626.0	626.0
20°	621.1	618.6	616.1	616.1	616.1	618.6	616.1	613.7	611.2	611.2
22.5°	603.8	601.3	598.8	598.8	598.8	601.3	598.8	593.9	593.9	593.9
25°	586.4	584.0	581.5	579.0	581.5	584.0	579.0	576.5	574.1	574.1
27.5°	566.6	564.2	561.7	559.2	561.7	564.2	561.7	556.7	556.7	556.7
30°	544.4	541.9	539.4	539.4	541.9	541.9	539.4	539.4	539.4	539.4
32.5°	522.1	519.6	517.2	517.2	519.6	519.6	522.1	522.1	519.6	519.6
35°	497.4	494.9	492.4	492.4	494.9	497.4	499.8	499.8	499.8	497.4
37.5°	470.1	470.1	467.7	467.7	472.6	477.6	477.6	475.1	475.1	472.6
40°	445.4	442.9	442.9	442.9	447.9	452.8	452.8	450.3	447.9	447.9
42.5°	418.2	418.2	418.2	418.2	425.6	428.1	425.6	425.6	423.1	423.1
45°	388.5	391.0	391.0	391.0	400.9	400.9	400.9	398.4	400.9	398.4
47.5°	361.3	363.7	363.7	368.7	373.6	373.6	373.6	376.1	376.1	376.1
50°	334.0	336.5	336.5	343.9	346.4	346.4	348.9	348.9	348.9	348.9
52.5°	306.8	306.8	309.3	316.7	319.2	321.7	321.7	324.1	324.1	324.1
55°	279.6	282.1	284.6	292.0	292.0	296.9	296.9	296.9	299.4	296.9
57.5°	252.4	254.9	257.3	262.3	267.2	269.7	269.7	272.2	272.2	272.2
60°	225.2	230.1	235.1	237.5	242.5	242.5	245.0	247.4	247.4	247.4
62.5°	200.4	205.4	210.3	212.8	215.3	217.7	220.2	222.7	225.2	225.2
65°	178.2	180.6	185.6	188.1	190.5	193.0	195.5	198.0	200.4	198.0
67.5°	153.4	158.4	163.3	165.8	168.3	170.7	173.2	175.7	175.7	175.7
70°	131.1	136.1	141.0	143.5	146.0	148.5	150.9	153.4	153.4	155.9
72.5°	111.3	116.3	118.8	121.2	123.7	126.2	128.7	131.1	133.6	133.6
75°	91.6	96.5	99.0	99.0	101.5	106.4	108.9	111.3	111.3	113.8
77.5°	71.8	76.7	79.2	81.7	84.1	86.6	89.1	91.6	94.0	94.0
80°	54.4	59.4	61.9	64.3	66.8	69.3	71.8	74.2	76.7	76.7
82.5°	37.1	44.5	44.5	47.0	49.5	54.4	56.9	59.4	61.9	61.9
85°	24.7	29.7	32.2	34.6	37.1	42.1	44.5	47.0	49.5	49.5
87.5°	9.9	17.3	19.8	22.3	27.2	29.7	32.2	34.6	37.1	37.1
90°	2.5	9.9	12.4	14.8	19.8	22.3	24.7	27.2	27.2	27.2
92.5°	32.2	37.1	37.1	42.1	52.0	79.2	99.0	103.9	101.5	94.0
95°	74.2	84.1	89.1	91.6	121.2	212.8	324.1	391.0	425.6	435.5
97.5°	128.7	141.0	148.5	143.5	183.1	304.4	480.0	598.8	663.1	680.5
100°	188.1	200.4	210.3	198.0	240.0	376.1	621.1	774.5	871.0	898.2
102.5°	254.9	267.2	274.7	252.4	294.5	445.4	739.9	935.3	1056.6	1103.6
105°	319.2	331.6	336.5	304.4	341.5	512.2	826.5	1081.3	1224.8	1266.9
107.5°	383.5	391.0	391.0	358.8	383.5	566.6	875.9	1197.6	1365.9	1410.4
110°	442.9	445.4	442.9	413.2	428.1	611.2	878.4	1271.9	1474.8	1544.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	489.9	494.9	485.0	465.2	465.2	635.9	878.4	1271.9	1521.8	1601.0
115°	524.6	537.0	527.1	517.2	512.2	650.8	893.3	1202.6	1477.2	1571.3
117.5°	541.9	566.6	569.1	559.2	559.2	665.6	898.2	1106.1	1353.5	1445.1
120°	551.8	581.5	608.7	598.8	603.8	680.5	883.4	1049.2	1214.9	1281.8
122.5°	566.6	581.5	628.5	626.0	643.4	695.3	868.5	1024.4	1140.7	1167.9
125°	586.4	588.9	626.0	643.4	670.6	730.0	866.0	1019.5	1108.5	1133.3
127.5°	603.8	608.7	631.0	655.7	692.8	754.7	848.7	1004.6	1076.4	1111.0
130°	626.0	631.0	648.3	675.5	707.7	762.1	836.4	957.6	1069.0	1101.1
132.5°	648.3	655.7	673.0	702.7	732.4	779.4	819.0	875.9	955.1	970.0
135°	673.0	680.5	695.3	725.0	754.7	786.9	833.9	866.0	905.6	923.0
137.5°	695.3	702.7	715.1	742.3	772.0	789.3	826.5	866.0	895.7	913.1
140°	722.5	727.5	739.9	762.1	791.8	801.7	816.6	833.9	856.2	868.5
142.5°	742.3	747.3	757.2	777.0	804.2	816.6	821.5	826.5	833.9	833.9
145°	762.1	764.6	774.5	789.3	819.0	833.9	833.9	836.4	841.3	841.3
147.5°	781.9	781.9	789.3	801.7	828.9	846.3	851.2	848.7	851.2	853.7
150°	799.2	796.8	801.7	814.1	836.4	851.2	861.1	863.6	863.6	866.0
152.5°	811.6	811.6	811.6	821.5	841.3	856.2	863.6	871.0	875.9	878.4
155°	826.5	824.0	824.0	828.9	846.3	863.6	868.5	873.5	878.4	880.9
157.5°	838.8	838.8	836.4	838.8	848.7	863.6	873.5	875.9	880.9	883.4
160°	848.7	846.3	846.3	846.3	853.7	863.6	868.5	873.5	878.4	878.4
162.5°	856.2	856.2	853.7	853.7	861.1	866.0	863.6	863.6	868.5	871.0
165°	861.1	863.6	861.1	861.1	866.0	871.0	868.5	863.6	863.6	866.0
167.5°	868.5	868.5	868.5	866.0	868.5	873.5	871.0	868.5	868.5	868.5
170°	871.0	871.0	871.0	871.0	871.0	875.9	871.0	868.5	868.5	868.5
172.5°	873.5	871.0	871.0	871.0	871.0	875.9	871.0	866.0	863.6	863.6
175°	873.5	873.5	871.0	871.0	871.0	873.5	868.5	866.0	861.1	858.6
177.5°	873.5	871.0	868.5	863.6	863.6	868.5	863.6	858.6	856.2	856.2
180°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1

(END OF REPORT)