

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: P183724

Luminaire Tested: **I2-WS-4L30-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183724
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-4L30-1D-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)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

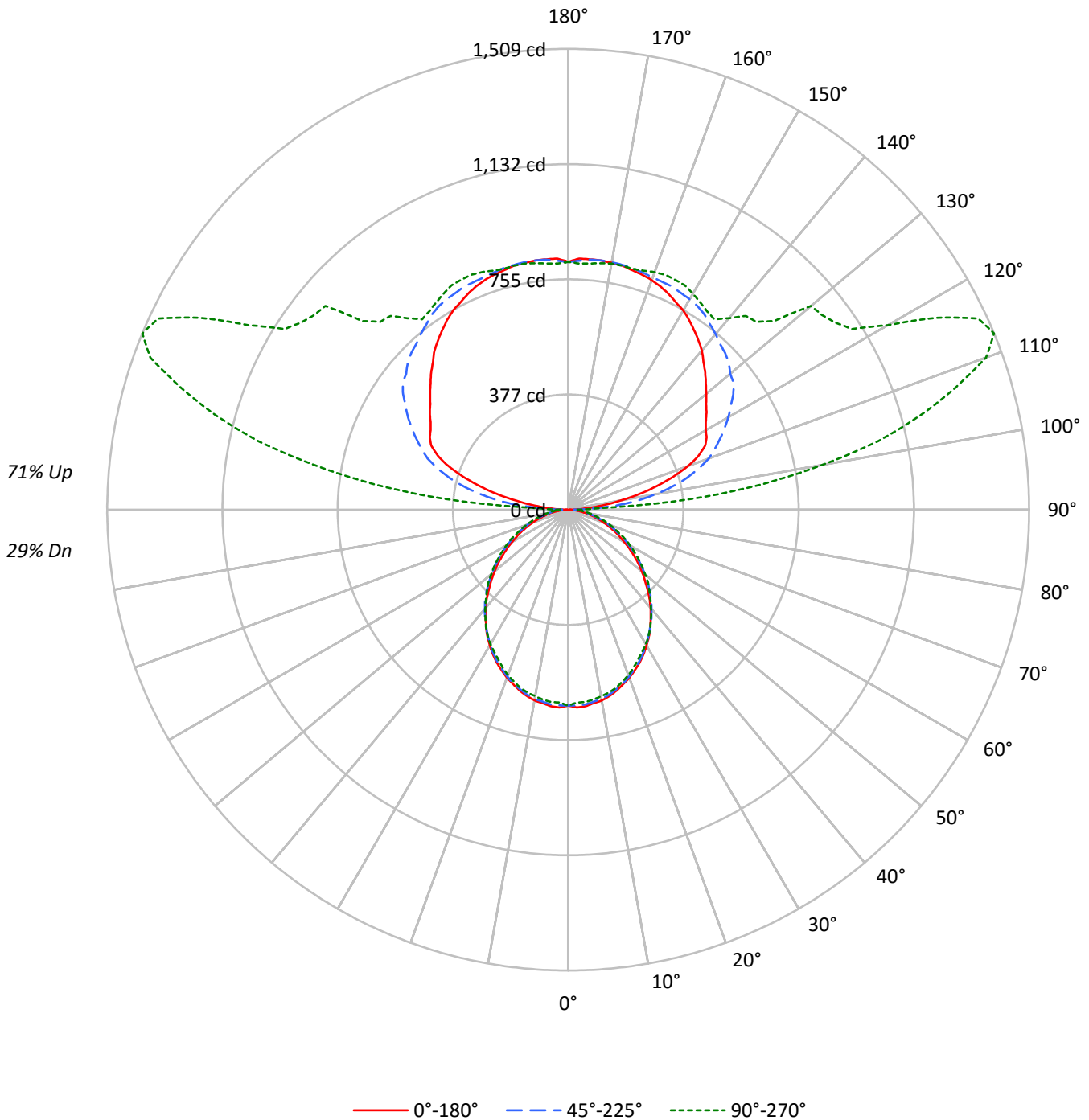
Lumens per Lamp: N/A
Luminaire Lumens: 5636.6 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

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°	5137	5137	5137
5°	5168	4959	4846
10°	5107	4758	4596
15°	5009	4522	4360
20°	4887	4284	4084
25°	4756	4038	3799
30°	4592	3778	3561
35°	4405	3507	3301
40°	4186	3254	3011
45°	3920	2985	2735
50°	3669	2682	2465
55°	3398	2393	2180
60°	3089	2091	1904
65°	2830	1775	1614
70°	2496	1482	1362
75°	2195	1157	1081
80°	1780	855	804
85°	1287	575	583



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	1.1
10°-20°	171.2	3.0
20°-30°	251.8	4.5
30°-40°	292.5	5.2
40°-50°	288.3	5.1
50°-60°	246.0	4.4
60°-70°	179.2	3.2
70°-80°	104.6	1.9
80°-90°	41.6	0.7
90°-100°	221.7	3.9
100°-110°	625.4	11.1
110°-120°	752.2	13.3
120°-130°	668.5	11.9
130°-140°	573.7	10.2
140°-150°	479.8	8.5
150°-160°	370.6	6.6
160°-170°	230.9	4.1
170°-180°	78.2	1.4
0°-30°	483.5	8.6
0°-40°	775.9	13.8
0°-60°	1310.2	23.2
0°-90°	1635.6	29.0
90°-120°	1599.3	28.4
90°-150°	3321.3	58.9
90°-180°	4001.0	71.0
0°-180°	5636.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	641	641	641	641	641	
5°	646	638	640	637	632	61
15°	613	608	609	607	604	173
25°	553	548	549	544	541	254
35°	469	464	468	471	469	293
45°	366	368	378	376	376	283
55°	264	270	278	280	280	236
65°	168	175	181	186	187	166
75°	86	93	98	104	107	91
85°	23	31	37	44	47	24
90°	2	12	20	25	26	6
95°	70	85	157	353	410	80
105°	301	310	402	959	1194	316
115°	494	494	548	1061	1481	480
125°	553	594	660	925	1068	495
135°	634	662	726	809	870	490
145°	718	734	779	788	793	450
155°	779	778	806	822	830	359
165°	812	812	819	815	816	230
175°	823	821	822	817	809	79
180°	812	812	812	812	812	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3
2.5°	648.3	643.7	641.3	639.0	639.0	643.7	641.3	639.0	634.3	632.0
5°	646.0	641.3	639.0	636.7	639.0	641.3	639.0	636.7	634.3	632.0
7.5°	639.0	636.7	632.0	632.0	632.0	636.7	632.0	632.0	629.7	627.4
10°	634.3	629.7	627.4	627.4	627.4	632.0	627.4	625.0	622.7	620.4
12.5°	625.0	620.4	618.0	618.0	618.0	622.7	618.0	615.7	613.4	613.4
15°	613.4	611.0	608.7	606.4	606.4	611.0	608.7	606.4	604.0	604.0
17.5°	599.4	597.0	594.7	594.7	594.7	599.4	594.7	592.4	590.0	590.0
20°	585.4	583.0	580.7	580.7	580.7	583.0	580.7	578.4	576.0	576.0
22.5°	569.0	566.7	564.4	564.4	564.4	566.7	564.4	559.7	559.7	559.7
25°	552.7	550.4	548.1	545.7	548.1	550.4	545.7	543.4	541.1	541.1
27.5°	534.1	531.7	529.4	527.1	529.4	531.7	529.4	524.7	524.7	524.7
30°	513.1	510.7	508.4	508.4	510.7	510.7	508.4	508.4	508.4	508.4
32.5°	492.1	489.8	487.4	487.4	489.8	489.8	492.1	492.1	489.8	489.8
35°	468.8	466.4	464.1	464.1	466.4	468.8	471.1	471.1	471.1	468.8
37.5°	443.1	443.1	440.8	440.8	445.4	450.1	450.1	447.8	447.8	445.4
40°	419.8	417.5	417.5	417.5	422.1	426.8	426.8	424.5	422.1	422.1
42.5°	394.1	394.1	394.1	394.1	401.1	403.5	401.1	401.1	398.8	398.8
45°	366.1	368.5	368.5	368.5	377.8	377.8	377.8	375.5	377.8	375.5
47.5°	340.5	342.8	342.8	347.5	352.2	352.2	352.2	354.5	354.5	354.5
50°	314.8	317.2	317.2	324.2	326.5	326.5	328.8	328.8	328.8	328.8
52.5°	289.2	289.2	291.5	298.5	300.8	303.2	303.2	305.5	305.5	305.5
55°	263.5	265.9	268.2	275.2	275.2	279.9	279.9	279.9	282.2	279.9
57.5°	237.9	240.2	242.5	247.2	251.9	254.2	254.2	256.5	256.5	256.5
60°	212.2	216.9	221.6	223.9	228.6	228.6	230.9	233.2	233.2	233.2
62.5°	188.9	193.6	198.2	200.6	202.9	205.2	207.6	209.9	212.2	212.2
65°	167.9	170.2	174.9	177.2	179.6	181.9	184.2	186.6	188.9	186.6
67.5°	144.6	149.3	153.9	156.3	158.6	160.9	163.3	165.6	165.6	165.6
70°	123.6	128.3	132.9	135.3	137.6	139.9	142.3	144.6	144.6	146.9
72.5°	104.9	109.6	111.9	114.3	116.6	118.9	121.3	123.6	125.9	125.9
75°	86.3	91.0	93.3	93.3	95.6	100.3	102.6	104.9	104.9	107.3
77.5°	67.6	72.3	74.6	77.0	79.3	81.6	84.0	86.3	88.6	88.6
80°	51.3	56.0	58.3	60.6	63.0	65.3	67.6	70.0	72.3	72.3
82.5°	35.0	42.0	42.0	44.3	46.6	51.3	53.6	56.0	58.3	58.3
85°	23.3	28.0	30.3	32.7	35.0	39.6	42.0	44.3	46.6	46.6
87.5°	9.3	16.3	18.7	21.0	25.7	28.0	30.3	32.7	35.0	35.0
90°	2.3	9.3	11.7	14.0	18.7	21.0	23.3	25.7	25.7	25.7
92.5°	30.3	35.0	35.0	39.6	49.0	74.6	93.3	98.0	95.6	88.6
95°	70.0	79.3	84.0	86.3	114.3	200.6	305.5	368.5	401.1	410.5
97.5°	121.3	132.9	139.9	135.3	172.6	286.9	452.4	564.4	625.0	641.3
100°	177.2	188.9	198.2	186.6	226.2	354.5	585.4	730.0	820.9	846.6
102.5°	240.2	251.9	258.9	237.9	277.5	419.8	697.3	881.6	995.8	1040.1
105°	300.8	312.5	317.2	286.9	321.8	482.8	778.9	1019.2	1154.4	1194.1
107.5°	361.5	368.5	368.5	338.2	361.5	534.1	825.6	1128.8	1287.4	1329.3
110°	417.5	419.8	417.5	389.5	403.5	576.0	827.9	1198.7	1390.0	1455.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	461.8	466.4	457.1	438.4	438.4	599.4	827.9	1198.7	1434.3	1508.9
115°	494.4	506.1	496.8	487.4	482.8	613.4	841.9	1133.4	1392.3	1480.9
117.5°	510.7	534.1	536.4	527.1	527.1	627.4	846.6	1042.5	1275.7	1362.0
120°	520.1	548.1	573.7	564.4	569.0	641.3	832.6	988.8	1145.1	1208.1
122.5°	534.1	548.1	592.4	590.0	606.4	655.3	818.6	965.5	1075.1	1100.8
125°	552.7	555.1	590.0	606.4	632.0	688.0	816.3	960.9	1044.8	1068.1
127.5°	569.0	573.7	594.7	618.0	653.0	711.3	799.9	946.9	1014.5	1047.1
130°	590.0	594.7	611.0	636.7	667.0	718.3	788.3	902.5	1007.5	1037.8
132.5°	611.0	618.0	634.3	662.3	690.3	734.6	771.9	825.6	900.2	914.2
135°	634.3	641.3	655.3	683.3	711.3	741.6	785.9	816.3	853.6	869.9
137.5°	655.3	662.3	674.0	699.6	727.6	744.0	778.9	816.3	844.2	860.6
140°	681.0	685.7	697.3	718.3	746.3	755.6	769.6	785.9	806.9	818.6
142.5°	699.6	704.3	713.6	732.3	758.0	769.6	774.3	778.9	785.9	785.9
145°	718.3	720.6	730.0	744.0	771.9	785.9	785.9	788.3	792.9	792.9
147.5°	737.0	737.0	744.0	755.6	781.3	797.6	802.3	799.9	802.3	804.6
150°	753.3	751.0	755.6	767.3	788.3	802.3	811.6	813.9	813.9	816.3
152.5°	764.9	764.9	764.9	774.3	792.9	806.9	813.9	820.9	825.6	827.9
155°	778.9	776.6	776.6	781.3	797.6	813.9	818.6	823.3	827.9	830.3
157.5°	790.6	790.6	788.3	790.6	799.9	813.9	823.3	825.6	830.3	832.6
160°	799.9	797.6	797.6	797.6	804.6	813.9	818.6	823.3	827.9	827.9
162.5°	806.9	806.9	804.6	804.6	811.6	816.3	813.9	813.9	818.6	820.9
165°	811.6	813.9	811.6	811.6	816.3	820.9	818.6	813.9	813.9	816.3
167.5°	818.6	818.6	818.6	816.3	818.6	823.3	820.9	818.6	818.6	818.6
170°	820.9	820.9	820.9	820.9	820.9	825.6	820.9	818.6	818.6	818.6
172.5°	823.3	820.9	820.9	820.9	820.9	825.6	820.9	816.3	813.9	813.9
175°	823.3	823.3	820.9	820.9	820.9	823.3	818.6	816.3	811.6	809.3
177.5°	823.3	820.9	818.6	813.9	813.9	818.6	813.9	809.3	806.9	806.9
180°	811.6	811.6	811.6	811.6	811.6	811.6	811.6	811.6	811.6	811.6

(END OF REPORT)