

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: P183739

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183739
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-4L30-1D-UNV-4-STD
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

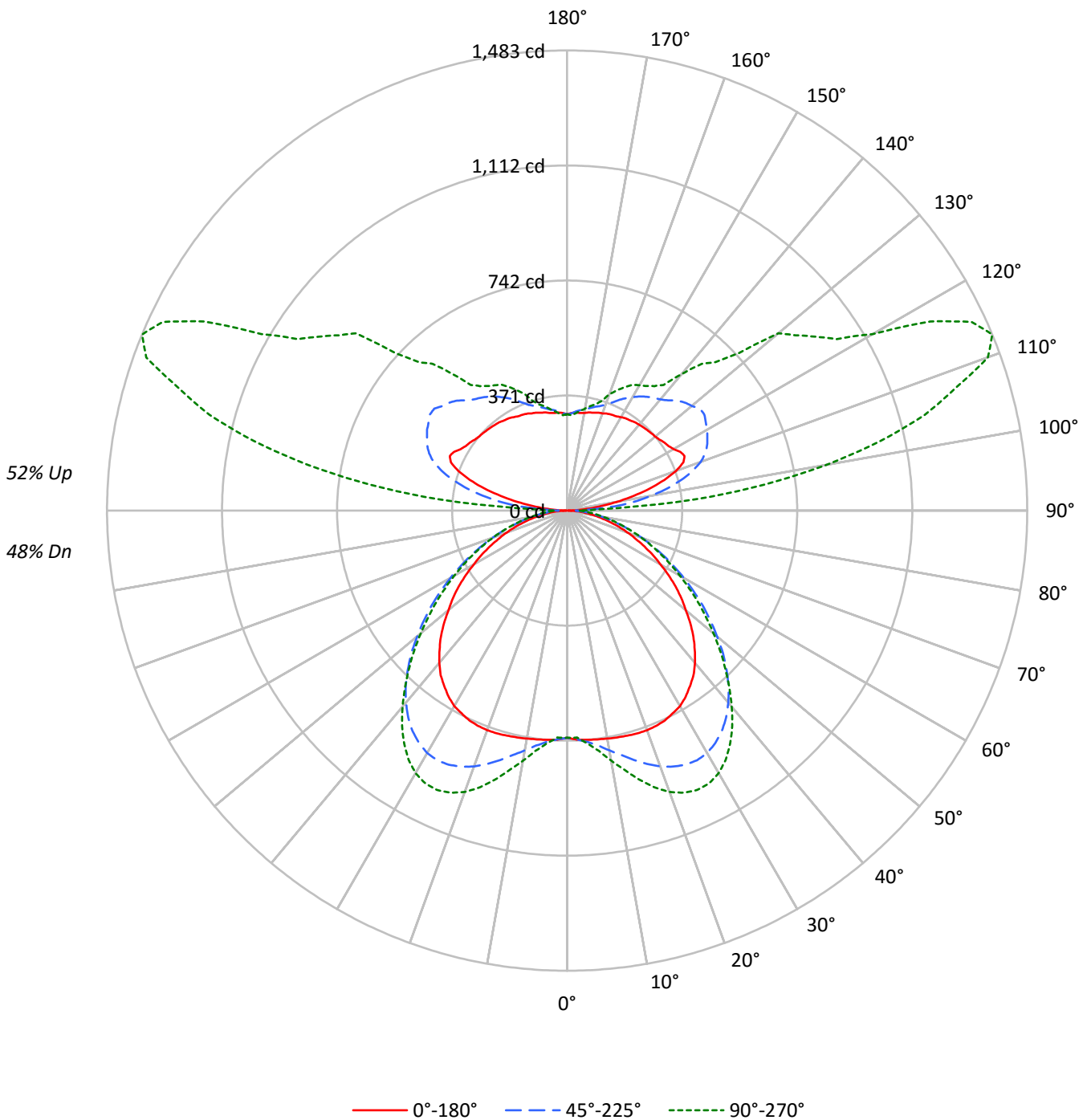
Lumens per Lamp: N/A
Luminaire Lumens: 5841.8 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.69 / 1.63
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: General Diffuse

Input Watts (W): 63.7
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										
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	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						48														
1	97	93	89	85	89	85	82	79	72	69	67	59	57	56	47	46	45	40						40														
2	88	81	75	69	81	74	69	64	63	59	55	52	49	46	42	40	38	33						33														
3	80	71	63	57	74	65	59	54	55	50	46	45	42	39	37	34	32	28						28														
4	73	62	54	48	67	58	51	45	49	43	39	40	36	33	33	30	27	24						24														
5	67	56	47	41	62	51	44	39	43	38	34	36	32	29	29	26	24	20						20														
6	62	50	41	36	57	46	39	33	39	33	29	32	28	25	26	23	21	18						18														
7	57	45	37	31	52	41	34	29	35	30	25	29	25	22	24	21	18	16						16														
8	53	40	33	27	48	38	31	26	32	26	22	27	22	19	22	19	16	14						14														
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	20	17	15	12						12														
10	46	34	26	22	42	31	25	20	27	22	18	23	18	15	19	15	13	11						11														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5864	5864	5864
5°	5932	5798	5775
10°	6007	5928	6063
15°	6131	6184	6480
20°	6287	6463	6845
25°	6420	6642	6973
30°	6511	6674	6843
35°	6485	6514	6451
40°	6393	6194	5887
45°	6166	5738	5247
50°	5816	5181	4616
55°	5502	4594	4013
60°	5057	3967	3427
65°	4636	3354	2884
70°	4191	2728	2356
75°	3616	2108	1832
80°	2994	1508	1322
85°	2187	953	904



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.2
10°-20°	235.3	4.0
20°-30°	407.3	7.0
30°-40°	520.8	8.9
40°-50°	528.8	9.1
50°-60°	448.4	7.7
60°-70°	321.0	5.5
70°-80°	182.5	3.1
80°-90°	68.2	1.2
90°-100°	217.4	3.7
100°-110°	604.1	10.3
110°-120°	698.4	12.0
120°-130°	554.6	9.5
130°-140°	399.3	6.8
140°-150°	273.6	4.7
150°-160°	181.0	3.1
160°-170°	98.1	1.7
170°-180°	30.8	0.5
0°-30°	715.0	12.2
0°-40°	1235.8	21.2
0°-60°	2213.0	37.9
0°-90°	2784.6	47.7
90°-120°	1519.8	26.0
90°-150°	2747.3	47.0
90°-180°	3057.0	52.3
0°-180°	5841.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	742	737	748	753	753	71
15°	751	771	832	882	898	213
25°	746	794	904	972	993	344
35°	690	755	869	915	916	432
45°	576	637	726	734	720	442
55°	427	473	533	527	515	380
65°	275	306	342	339	333	273
75°	142	159	178	182	182	152
85°	40	48	62	72	72	42
90°	2	17	28	37	37	6
95°	63	80	152	347	415	73
105°	278	287	380	943	1194	288
115°	417	431	498	1019	1439	401
125°	382	445	540	821	977	343
135°	366	408	501	612	676	284
145°	354	384	448	478	490	223
155°	340	351	393	426	438	158
165°	326	332	346	354	354	93
175°	317	318	321	320	315	30
180°	310	310	310	310	310	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1
2.5°	739.1	736.8	732.1	732.1	734.5	741.5	739.1	736.8	734.5	732.1
5°	741.5	736.8	736.8	739.1	743.8	753.1	753.1	753.1	753.1	753.1
7.5°	743.8	741.5	741.5	748.5	755.4	771.8	774.1	778.8	781.1	781.1
10°	746.1	743.8	748.5	760.1	774.1	795.1	804.4	811.4	816.1	818.4
12.5°	748.5	748.5	755.4	771.8	792.8	820.7	834.7	846.4	853.4	855.7
15°	750.8	753.1	764.8	788.1	816.1	848.7	869.7	886.0	895.3	897.7
17.5°	753.1	755.4	771.8	799.7	834.7	876.7	900.0	921.0	932.7	935.0
20°	753.1	757.8	778.8	813.7	855.7	900.0	928.0	949.0	960.6	965.3
22.5°	750.8	755.4	781.1	823.1	869.7	916.3	946.6	967.6	981.6	983.9
25°	746.1	753.1	783.4	827.7	879.0	928.0	958.3	977.0	988.6	993.3
27.5°	736.8	746.1	778.8	827.7	883.7	930.3	960.6	977.0	986.3	990.9
30°	727.5	736.8	771.8	823.1	879.0	925.7	951.3	967.6	974.6	977.0
32.5°	711.1	722.8	757.8	811.4	867.4	909.3	935.0	946.6	951.3	951.3
35°	690.2	701.8	741.5	795.1	848.7	888.4	909.3	916.3	916.3	916.3
37.5°	669.2	680.8	718.1	771.8	823.1	860.4	876.7	879.0	876.7	874.4
40°	641.2	652.9	690.2	743.8	792.8	823.1	834.7	832.4	827.7	825.4
42.5°	608.6	620.2	659.9	708.8	757.8	783.4	788.1	783.4	776.4	774.1
45°	575.9	587.6	624.9	673.8	715.8	736.8	739.1	732.1	722.8	720.5
47.5°	538.6	550.3	585.2	634.2	671.5	690.2	687.8	680.8	671.5	669.2
50°	499.0	513.0	545.6	592.2	622.5	638.9	636.5	627.2	617.9	615.6
52.5°	464.0	475.7	506.0	547.9	575.9	587.6	585.2	575.9	566.6	564.3
55°	426.7	436.0	464.0	501.3	526.9	538.6	533.9	524.6	515.3	515.3
57.5°	387.1	396.4	422.0	454.7	478.0	487.3	482.6	475.7	468.7	466.3
60°	347.4	359.1	382.4	410.4	431.4	436.0	433.7	426.7	422.0	419.7
62.5°	312.4	321.8	342.7	366.1	382.4	391.7	387.1	382.4	375.4	375.4
65°	275.1	284.5	300.8	321.8	338.1	345.1	342.7	338.1	333.4	333.4
67.5°	240.2	247.2	263.5	282.1	293.8	300.8	298.4	296.1	291.5	291.5
70°	207.5	212.2	226.2	240.2	251.8	258.8	258.8	256.5	254.1	254.1
72.5°	174.9	179.5	191.2	202.9	212.2	219.2	221.5	216.8	216.8	216.8
75°	142.2	149.2	156.2	167.9	174.9	181.9	184.2	181.9	181.9	181.9
77.5°	114.2	118.9	125.9	135.2	139.9	146.9	149.2	149.2	149.2	149.2
80°	86.3	90.9	97.9	102.6	109.6	116.6	118.9	118.9	121.2	118.9
82.5°	63.0	65.3	69.9	76.9	81.6	88.6	93.3	93.3	95.6	95.6
85°	39.6	42.0	46.6	53.6	58.3	65.3	69.9	72.3	72.3	72.3
87.5°	16.3	23.3	28.0	35.0	39.6	46.6	51.3	53.6	53.6	53.6
90°	2.3	11.7	16.3	21.0	25.6	30.3	35.0	37.3	37.3	37.3
92.5°	25.6	32.6	35.0	39.6	51.3	72.3	93.3	97.9	102.6	102.6
95°	63.0	74.6	79.3	81.6	109.6	193.5	296.1	363.7	398.7	415.0
97.5°	111.9	123.6	130.6	125.9	160.9	272.8	440.7	552.6	620.2	641.2
100°	163.2	177.2	184.2	172.5	212.2	340.4	571.2	715.8	811.4	848.7
102.5°	219.2	233.2	240.2	219.2	256.5	403.4	678.5	867.4	983.9	1032.9
105°	277.5	286.8	293.8	265.8	298.4	461.7	764.8	1002.6	1140.2	1193.8
107.5°	328.8	335.8	340.4	312.4	335.8	510.6	804.4	1109.9	1273.1	1312.7
110°	373.1	380.1	380.1	356.7	370.7	545.6	804.4	1177.5	1371.0	1443.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	405.7	415.0	410.4	396.4	398.7	564.3	797.4	1172.8	1413.0	1482.9
115°	417.4	433.7	431.4	429.0	431.4	564.3	797.4	1093.5	1357.0	1438.6
117.5°	410.4	438.3	452.3	450.0	457.0	561.9	788.1	988.6	1221.8	1319.7
120°	396.4	431.4	466.3	468.7	480.3	561.9	760.1	925.7	1074.9	1137.8
122.5°	387.1	405.7	461.7	473.3	499.0	559.6	732.1	881.4	995.6	1028.2
125°	382.4	389.4	436.0	471.0	506.0	573.6	711.1	858.0	951.3	977.0
127.5°	375.4	382.4	415.0	457.0	503.6	575.9	671.5	825.4	900.0	928.0
130°	370.7	380.1	405.7	445.3	492.0	557.3	638.9	757.8	862.7	888.4
132.5°	368.4	377.7	403.4	443.0	487.3	543.3	596.9	659.9	739.1	750.8
135°	366.1	375.4	398.7	436.0	478.0	524.6	580.6	622.5	662.2	676.2
137.5°	363.7	373.1	391.7	429.0	466.3	496.6	545.6	594.6	629.5	641.2
140°	361.4	368.4	389.4	422.0	457.0	478.0	503.6	531.6	557.3	573.6
142.5°	359.1	366.1	382.4	412.7	447.7	468.7	482.6	496.6	506.0	510.6
145°	354.4	361.4	377.7	403.4	436.0	459.3	471.0	480.3	487.3	489.6
147.5°	352.1	354.4	368.4	391.7	424.4	447.7	461.7	468.7	473.3	475.7
150°	347.4	349.7	361.4	382.4	410.4	433.7	450.0	461.7	464.0	466.3
152.5°	342.7	345.1	354.4	370.7	396.4	419.7	433.7	447.7	454.7	457.0
155°	340.4	340.4	347.4	361.4	382.4	403.4	417.4	429.0	436.0	438.3
157.5°	338.1	338.1	342.7	354.4	368.4	384.7	401.0	410.4	417.4	419.7
160°	333.4	333.4	338.1	347.4	356.7	368.4	380.1	391.7	398.7	398.7
162.5°	331.1	331.1	333.4	340.4	349.7	356.7	361.4	366.1	370.7	370.7
165°	326.4	328.8	331.1	335.8	342.7	349.7	352.1	354.4	354.4	354.4
167.5°	324.1	326.4	328.8	331.1	335.8	340.4	342.7	345.1	345.1	345.1
170°	319.4	321.8	324.1	328.8	328.8	333.4	333.4	335.8	335.8	333.4
172.5°	317.1	319.4	321.8	324.1	326.4	326.4	326.4	326.4	324.1	324.1
175°	317.1	317.1	317.1	319.4	319.4	321.8	321.8	319.4	317.1	314.8
177.5°	314.8	314.8	314.8	314.8	312.4	314.8	312.4	312.4	310.1	307.8
180°	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1

(END OF REPORT)