

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: P183749

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183749
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-4L40-1D-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: 6198.1 lumens
Efficiency: N/A
Efficacy: 97.3 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

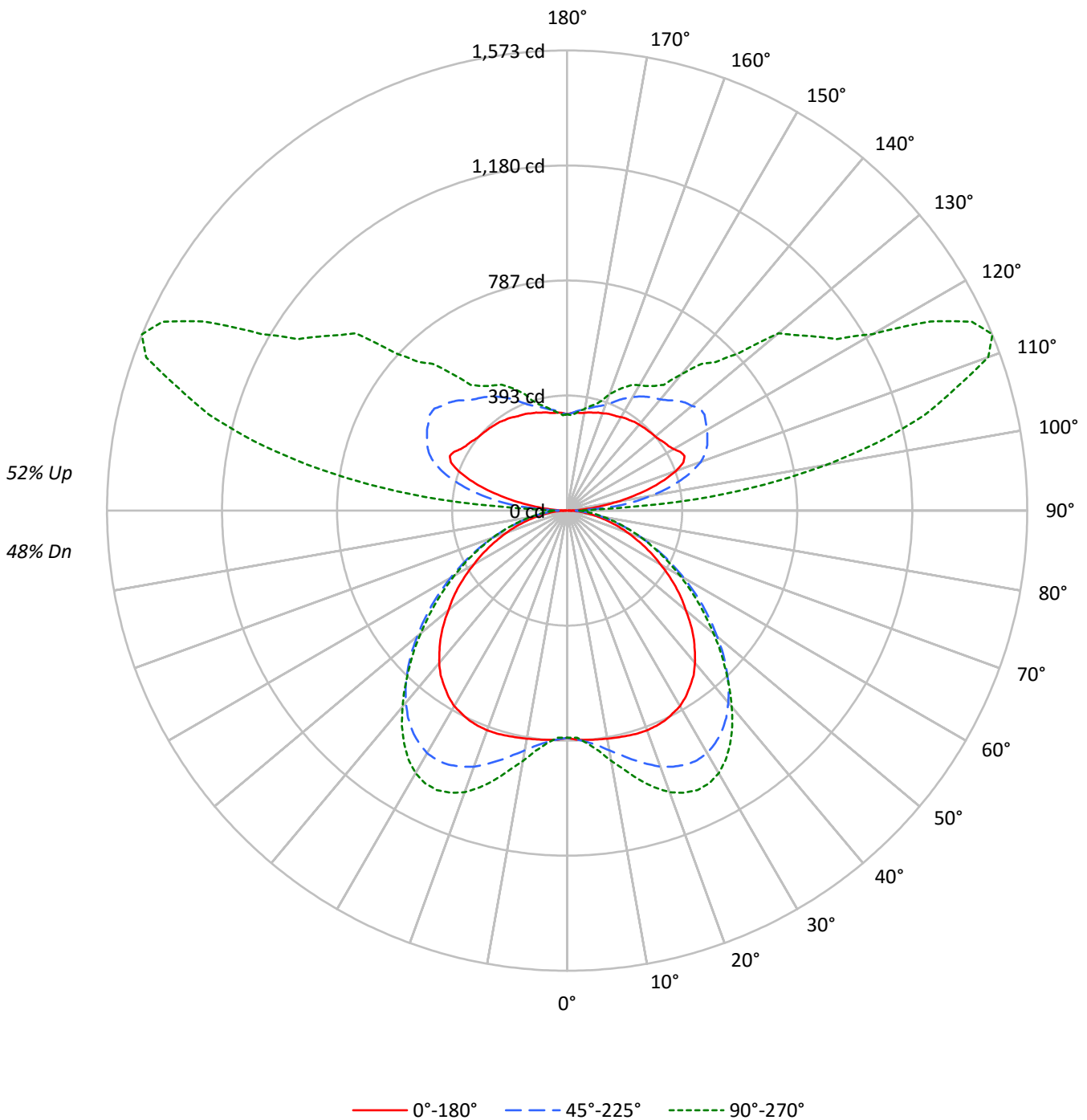
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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°	6223	6223	6223
5°	6294	6152	6128
10°	6374	6290	6433
15°	6505	6562	6875
20°	6671	6857	7263
25°	6812	7047	7399
30°	6907	7081	7259
35°	6881	6912	6845
40°	6783	6571	6246
45°	6541	6088	5567
50°	6170	5497	4897
55°	5838	4874	4258
60°	5365	4209	3636
65°	4919	3558	3060
70°	4447	2894	2501
75°	3838	2236	1944
80°	3174	1600	1403
85°	2325	1011	959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.2
10°-20°	249.7	4.0
20°-30°	432.2	7.0
30°-40°	552.5	8.9
40°-50°	561.0	9.1
50°-60°	475.8	7.7
60°-70°	340.5	5.5
70°-80°	193.6	3.1
80°-90°	72.3	1.2
90°-100°	230.6	3.7
100°-110°	640.9	10.3
110°-120°	741.0	12.0
120°-130°	588.5	9.5
130°-140°	423.6	6.8
140°-150°	290.3	4.7
150°-160°	192.0	3.1
160°-170°	104.1	1.7
170°-180°	32.6	0.5
0°-30°	758.6	12.2
0°-40°	1311.2	21.2
0°-60°	2348.0	37.9
0°-90°	2954.4	47.7
90°-120°	1612.5	26.0
90°-150°	2914.9	47.0
90°-180°	3244.0	52.3
0°-180°	6198.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	787	782	794	799	799	75
15°	797	818	883	936	952	226
25°	792	843	959	1032	1054	365
35°	732	801	922	970	972	458
45°	611	676	771	779	764	469
55°	453	502	565	559	547	403
65°	292	325	362	360	354	290
75°	151	169	189	194	193	162
85°	42	51	66	76	77	44
90°	2	19	30	39	40	7
95°	67	85	161	368	440	78
105°	294	304	403	1001	1267	306
115°	443	457	528	1082	1526	426
125°	406	472	573	871	1036	364
135°	388	433	532	649	717	301
145°	376	408	475	507	520	237
155°	361	372	417	452	465	167
165°	346	353	367	375	376	99
175°	336	337	340	340	334	32
180°	329	329	329	329	329	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8
2.5°	784.2	781.7	776.8	776.8	779.3	786.7	784.2	781.7	779.3	776.8
5°	786.7	781.7	781.7	784.2	789.2	799.1	799.1	799.1	799.1	799.1
7.5°	789.2	786.7	786.7	794.1	801.5	818.8	821.3	826.3	828.7	828.7
10°	791.6	789.2	794.1	806.5	821.3	843.6	853.5	860.9	865.9	868.3
12.5°	794.1	794.1	801.5	818.8	841.1	870.8	885.6	898.0	905.4	907.9
15°	796.6	799.1	811.4	836.2	865.9	900.5	922.8	940.1	950.0	952.4
17.5°	799.1	801.5	818.8	848.5	885.6	930.2	954.9	977.2	989.5	992.0
20°	799.1	804.0	826.3	863.4	907.9	954.9	984.6	1006.9	1019.2	1024.2
22.5°	796.6	801.5	828.7	873.3	922.8	972.2	1004.4	1026.7	1041.5	1044.0
25°	791.6	799.1	831.2	878.2	932.6	984.6	1016.8	1036.5	1048.9	1053.9
27.5°	781.7	791.6	826.3	878.2	937.6	987.1	1019.2	1036.5	1046.4	1051.4
30°	771.8	781.7	818.8	873.3	932.6	982.1	1009.3	1026.7	1034.1	1036.5
32.5°	754.5	766.9	804.0	860.9	920.3	964.8	992.0	1004.4	1009.3	1009.3
35°	732.3	744.6	786.7	843.6	900.5	942.5	964.8	972.2	972.2	972.2
37.5°	710.0	722.4	761.9	818.8	873.3	912.9	930.2	932.6	930.2	927.7
40°	680.3	692.7	732.3	789.2	841.1	873.3	885.6	883.2	878.2	875.7
42.5°	645.7	658.0	700.1	752.1	804.0	831.2	836.2	831.2	823.8	821.3
45°	611.0	623.4	663.0	714.9	759.5	781.7	784.2	776.8	766.9	764.4
47.5°	571.5	583.8	620.9	672.9	712.5	732.3	729.8	722.4	712.5	710.0
50°	529.4	544.2	578.9	628.4	660.5	677.8	675.4	665.5	655.6	653.1
52.5°	492.3	504.7	536.8	581.4	611.0	623.4	620.9	611.0	601.1	598.7
55°	452.7	462.6	492.3	531.9	559.1	571.5	566.5	556.6	546.7	546.7
57.5°	410.7	420.6	447.8	482.4	507.1	517.0	512.1	504.7	497.2	494.8
60°	368.6	381.0	405.7	435.4	457.7	462.6	460.1	452.7	447.8	445.3
62.5°	331.5	341.4	363.7	388.4	405.7	415.6	410.7	405.7	398.3	398.3
65°	291.9	301.8	319.1	341.4	358.7	366.1	363.7	358.7	353.8	353.8
67.5°	254.8	262.2	279.5	299.3	311.7	319.1	316.7	314.2	309.2	309.2
70°	220.2	225.1	240.0	254.8	267.2	274.6	274.6	272.1	269.7	269.7
72.5°	185.5	190.5	202.9	215.2	225.1	232.5	235.0	230.1	230.1	230.1
75°	150.9	158.3	165.7	178.1	185.5	193.0	195.4	193.0	193.0	193.0
77.5°	121.2	126.2	133.6	143.5	148.4	155.9	158.3	158.3	158.3	158.3
80°	91.5	96.5	103.9	108.8	116.3	123.7	126.2	126.2	128.6	126.2
82.5°	66.8	69.3	74.2	81.6	86.6	94.0	99.0	99.0	101.4	101.4
85°	42.1	44.5	49.5	56.9	61.8	69.3	74.2	76.7	76.7	76.7
87.5°	17.3	24.7	29.7	37.1	42.1	49.5	54.4	56.9	56.9	56.9
90°	2.5	12.4	17.3	22.3	27.2	32.2	37.1	39.6	39.6	39.6
92.5°	27.2	34.6	37.1	42.1	54.4	76.7	99.0	103.9	108.8	108.8
95°	66.8	79.2	84.1	86.6	116.3	205.3	314.2	385.9	423.0	440.3
97.5°	118.7	131.1	138.5	133.6	170.7	289.4	467.6	586.3	658.0	680.3
100°	173.2	188.0	195.4	183.1	225.1	361.2	606.1	759.5	860.9	900.5
102.5°	232.5	247.4	254.8	232.5	272.1	428.0	719.9	920.3	1044.0	1095.9
105°	294.4	304.3	311.7	282.0	316.7	489.8	811.4	1063.8	1209.7	1266.6
107.5°	348.8	356.2	361.2	331.5	356.2	541.8	853.5	1177.6	1350.7	1392.8
110°	395.8	403.2	403.2	378.5	393.3	578.9	853.5	1249.3	1454.6	1531.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	430.5	440.3	435.4	420.6	423.0	598.7	846.1	1244.4	1499.2	1573.4
115°	442.8	460.1	457.7	455.2	457.7	598.7	846.1	1160.2	1439.8	1526.4
117.5°	435.4	465.1	479.9	477.5	484.9	596.2	836.2	1048.9	1296.3	1400.2
120°	420.6	457.7	494.8	497.2	509.6	596.2	806.5	982.1	1140.5	1207.2
122.5°	410.7	430.5	489.8	502.2	529.4	593.7	776.8	935.1	1056.3	1091.0
125°	405.7	413.1	462.6	499.7	536.8	608.6	754.5	910.4	1009.3	1036.5
127.5°	398.3	405.7	440.3	484.9	534.4	611.0	712.5	875.7	954.9	984.6
130°	393.3	403.2	430.5	472.5	522.0	591.3	677.8	804.0	915.3	942.5
132.5°	390.9	400.8	428.0	470.0	517.0	576.4	633.3	700.1	784.2	796.6
135°	388.4	398.3	423.0	462.6	507.1	556.6	616.0	660.5	702.6	717.4
137.5°	385.9	395.8	415.6	455.2	494.8	526.9	578.9	630.8	667.9	680.3
140°	383.4	390.9	413.1	447.8	484.9	507.1	534.4	564.0	591.3	608.6
142.5°	381.0	388.4	405.7	437.9	475.0	497.2	512.1	526.9	536.8	541.8
145°	376.0	383.4	400.8	428.0	462.6	487.4	499.7	509.6	517.0	519.5
147.5°	373.6	376.0	390.9	415.6	450.2	475.0	489.8	497.2	502.2	504.7
150°	368.6	371.1	383.4	405.7	435.4	460.1	477.5	489.8	492.3	494.8
152.5°	363.7	366.1	376.0	393.3	420.6	445.3	460.1	475.0	482.4	484.9
155°	361.2	361.2	368.6	383.4	405.7	428.0	442.8	455.2	462.6	465.1
157.5°	358.7	358.7	363.7	376.0	390.9	408.2	425.5	435.4	442.8	445.3
160°	353.8	353.8	358.7	368.6	378.5	390.9	403.2	415.6	423.0	423.0
162.5°	351.3	351.3	353.8	361.2	371.1	378.5	383.4	388.4	393.3	393.3
165°	346.3	348.8	351.3	356.2	363.7	371.1	373.6	376.0	376.0	376.0
167.5°	343.9	346.3	348.8	351.3	356.2	361.2	363.7	366.1	366.1	366.1
170°	338.9	341.4	343.9	348.8	348.8	353.8	353.8	356.2	356.2	353.8
172.5°	336.4	338.9	341.4	343.9	346.3	346.3	346.3	346.3	343.9	343.9
175°	336.4	336.4	336.4	338.9	338.9	341.4	341.4	338.9	336.4	334.0
177.5°	334.0	334.0	334.0	334.0	331.5	334.0	331.5	331.5	329.0	326.5
180°	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0

(END OF REPORT)