

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: P183755

Luminaire Tested: **I2-WS-5L30-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26979)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WS-5L30-1D-UNV-4-STD-DM5
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 40% UP / 60% DOWN.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

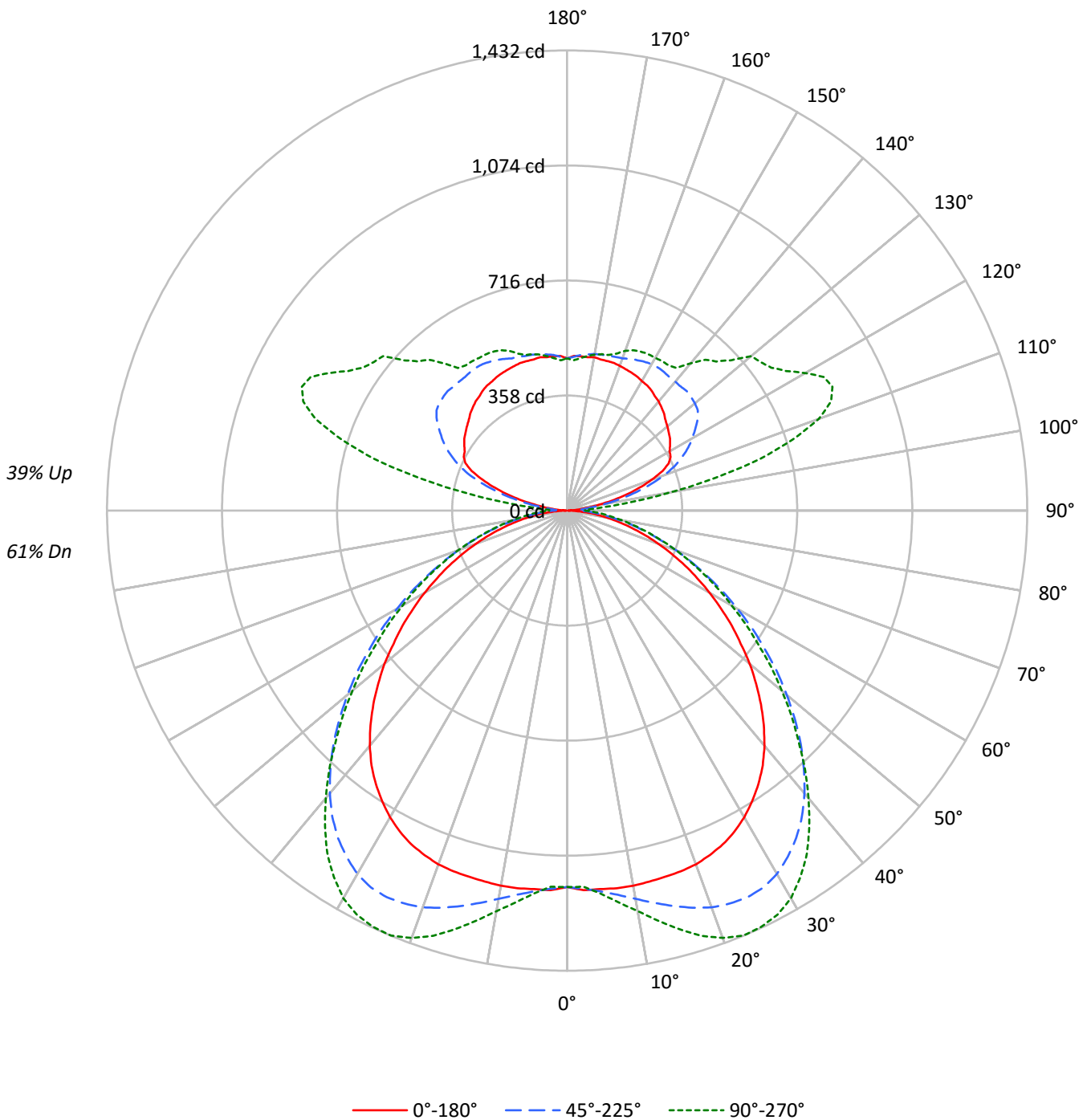
Lumens per Lamp: N/A
Luminaire Lumens: 6607.3 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 79.2
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	56	51
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	49	47	43
3	83	73	66	60	77	69	62	56	60	55	51	52	48	45	45	42	40	36
4	76	65	56	50	71	61	53	48	53	48	43	47	42	38	40	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	36	31	39	33	28	34	29	26	30	26	23	20
8	55	42	34	29	51	40	33	27	35	29	25	31	26	23	27	23	20	18
9	51	38	31	26	48	36	29	24	32	27	22	29	24	20	25	21	18	16
10	48	35	28	23	45	33	27	22	30	24	20	26	22	18	23	19	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9383	9383	9383
5°	9460	9214	9174
10°	9543	9269	9375
15°	9633	9464	9735
20°	9779	9674	10034
25°	9865	9761	10031
30°	9863	9658	9755
35°	9757	9325	9163
40°	9526	8810	8335
45°	9131	8128	7421
50°	8649	7324	6541
55°	8070	6471	5650
60°	7457	5597	4839
65°	6814	4704	4073
70°	6095	3846	3338
75°	5282	2994	2593
80°	4323	2123	1908
85°	2905	1346	1316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.7
10°-20°	359.8	5.4
20°-30°	600.7	9.1
30°-40°	750.8	11.4
40°-50°	755.9	11.4
50°-60°	639.7	9.7
60°-70°	456.8	6.9
70°-80°	259.7	3.9
80°-90°	96.3	1.5
90°-100°	83.5	1.3
100°-110°	336.6	5.1
110°-120°	503.1	7.6
120°-130°	488.8	7.4
130°-140°	413.1	6.3
140°-150°	323.8	4.9
150°-160°	237.1	3.6
160°-170°	140.9	2.1
170°-180°	46.3	0.7
0°-30°	1074.9	16.3
0°-40°	1825.6	27.6
0°-60°	3221.2	48.8
0°-90°	4034.0	61.1
90°-120°	923.2	14.0
90°-150°	2148.9	32.5
90°-180°	2573.0	38.9
0°-180°	6607.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1182	1175	1189	1194	1196	113
15°	1180	1198	1274	1332	1349	334
25°	1146	1198	1328	1407	1429	528
35°	1038	1112	1243	1296	1302	648
45°	853	925	1029	1033	1019	657
55°	626	681	750	745	726	559
65°	404	438	479	480	471	401
75°	208	228	253	260	258	221
85°	53	66	87	102	105	58
90°	3	21	40	52	55	5
95°	28	30	47	89	102	38
105°	188	190	223	491	623	198
115°	349	351	395	692	911	336
125°	390	432	496	676	775	349
135°	426	460	526	602	656	329
145°	457	483	526	544	551	286
155°	474	487	516	539	546	219
165°	482	491	498	501	501	137
175°	482	482	486	482	476	46
180°	474	474	474	474	474	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4	1171.4
2.5°	1182.4	1176.9	1171.4	1171.4	1171.4	1185.2	1179.7	1176.9	1171.4	1171.4
5°	1182.4	1176.9	1174.1	1176.9	1182.4	1196.3	1193.5	1193.5	1196.3	1196.3
7.5°	1185.2	1179.7	1176.9	1185.2	1196.3	1215.7	1218.4	1224.0	1226.7	1229.5
10°	1185.2	1179.7	1182.4	1196.3	1212.9	1240.6	1248.9	1257.2	1262.7	1265.5
12.5°	1182.4	1179.7	1188.0	1207.4	1232.3	1268.3	1282.1	1296.0	1304.3	1307.0
15°	1179.7	1179.7	1190.7	1218.4	1251.7	1296.0	1315.3	1337.5	1348.6	1348.6
17.5°	1176.9	1176.9	1196.3	1229.5	1271.0	1320.9	1348.6	1370.7	1384.6	1387.3
20°	1171.4	1171.4	1196.3	1237.8	1287.7	1340.3	1370.7	1395.7	1412.3	1415.0
22.5°	1160.3	1165.8	1193.5	1240.6	1296.0	1351.3	1384.6	1409.5	1426.1	1431.7
25°	1146.4	1152.0	1185.2	1237.8	1298.7	1356.9	1390.1	1412.3	1426.1	1428.9
27.5°	1127.0	1135.4	1171.4	1229.5	1293.2	1351.3	1381.8	1401.2	1412.3	1417.8
30°	1102.1	1113.2	1152.0	1212.9	1279.4	1332.0	1362.4	1379.0	1387.3	1392.9
32.5°	1071.7	1082.7	1127.0	1188.0	1254.4	1301.5	1329.2	1343.0	1345.8	1351.3
35°	1038.4	1049.5	1096.6	1157.5	1221.2	1265.5	1287.7	1298.7	1296.0	1301.5
37.5°	999.7	1010.7	1057.8	1118.7	1179.7	1221.2	1237.8	1240.6	1235.0	1237.8
40°	955.4	966.4	1013.5	1074.4	1129.8	1168.6	1176.9	1171.4	1165.8	1168.6
42.5°	905.5	919.4	963.7	1021.8	1077.2	1104.9	1113.2	1104.9	1093.8	1096.6
45°	852.9	866.7	911.1	966.4	1016.3	1041.2	1041.2	1030.1	1021.8	1019.0
47.5°	797.5	811.4	852.9	908.3	949.8	972.0	972.0	960.9	947.1	947.1
50°	742.1	753.2	792.0	847.4	880.6	902.7	897.2	886.1	875.1	872.3
52.5°	681.2	697.8	731.1	783.7	814.1	830.7	828.0	816.9	803.1	800.3
55°	625.8	639.7	670.1	714.4	742.1	758.7	753.2	742.1	731.1	725.5
57.5°	567.7	581.5	612.0	648.0	675.7	689.5	684.0	672.9	664.6	659.1
60°	512.3	523.4	551.1	581.5	606.4	617.5	614.8	606.4	598.1	592.6
62.5°	456.9	468.0	490.1	517.8	540.0	551.1	548.3	542.8	534.4	531.7
65°	404.3	412.6	432.0	456.9	473.5	484.6	484.6	479.1	473.5	470.8
67.5°	351.7	360.0	376.6	398.8	412.6	423.7	426.5	420.9	415.4	412.6
70°	301.8	310.1	321.2	340.6	354.5	365.5	368.3	365.5	360.0	360.0
72.5°	254.8	260.3	271.4	285.2	301.8	307.4	310.1	310.1	310.1	307.4
75°	207.7	213.2	224.3	238.1	249.2	257.5	260.3	260.3	257.5	257.5
77.5°	163.4	171.7	177.2	191.1	202.1	207.7	213.2	213.2	213.2	213.2
80°	124.6	130.2	135.7	146.8	155.1	163.4	168.9	171.7	171.7	171.7
82.5°	88.6	94.2	96.9	108.0	116.3	124.6	130.2	135.7	135.7	135.7
85°	52.6	58.2	63.7	74.8	83.1	91.4	99.7	102.5	105.2	105.2
87.5°	22.2	30.5	36.0	47.1	58.2	66.5	72.0	74.8	77.5	77.5
90°	2.8	11.1	19.4	27.7	36.0	44.3	49.8	52.6	55.4	55.4
92.5°	11.1	13.8	16.6	22.2	30.5	38.8	47.1	49.8	55.4	55.4
95°	27.7	33.2	30.5	30.5	36.0	58.2	80.3	91.4	99.7	102.5
97.5°	58.2	60.9	60.9	58.2	63.7	91.4	144.0	174.5	193.8	196.6
100°	94.2	99.7	99.7	94.2	102.5	141.2	232.6	285.2	318.5	329.5
102.5°	141.2	144.0	146.8	135.7	144.0	199.4	321.2	409.8	459.7	473.5
105°	188.3	193.8	193.8	180.0	188.3	257.5	393.2	523.4	595.4	623.1
107.5°	235.4	240.9	238.1	221.5	229.8	315.7	448.6	612.0	708.9	736.6
110°	279.7	285.2	279.7	265.8	274.1	368.3	487.4	681.2	792.0	833.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	321.2	324.0	318.5	310.1	315.7	409.8	531.7	720.0	850.1	888.9
115°	348.9	357.2	351.7	348.9	354.5	434.8	573.2	731.1	869.5	911.1
117.5°	362.8	379.4	384.9	382.1	393.2	456.9	600.9	720.0	855.7	900.0
120°	368.3	390.5	409.8	412.6	423.7	476.3	609.2	717.2	814.1	855.7
122.5°	379.4	393.2	426.5	434.8	451.4	492.9	606.4	708.9	786.4	808.6
125°	390.5	396.0	426.5	448.6	473.5	517.8	603.7	700.6	761.5	775.4
127.5°	398.8	407.1	426.5	454.1	490.1	534.4	595.4	692.3	739.4	758.7
130°	407.1	415.4	434.8	462.4	495.7	542.8	592.6	667.4	731.1	747.7
132.5°	415.4	426.5	445.8	470.8	504.0	542.8	581.5	628.6	681.2	692.3
135°	426.5	437.5	454.1	479.1	509.5	542.8	581.5	609.2	639.7	656.3
137.5°	434.8	445.8	459.7	487.4	512.3	534.4	564.9	598.1	623.1	636.9
140°	443.1	454.1	468.0	492.9	515.1	531.7	548.3	564.9	584.3	598.1
142.5°	448.6	459.7	473.5	495.7	517.8	528.9	540.0	548.3	556.6	559.4
145°	456.9	465.2	479.1	495.7	520.6	531.7	540.0	545.5	551.1	551.1
147.5°	462.4	468.0	481.8	495.7	520.6	534.4	540.0	545.5	548.3	551.1
150°	465.2	470.8	481.8	495.7	517.8	534.4	540.0	545.5	545.5	548.3
152.5°	470.8	473.5	484.6	495.7	512.3	531.7	537.2	542.8	548.3	548.3
155°	473.5	476.3	484.6	492.9	506.8	526.1	534.4	540.0	542.8	545.5
157.5°	476.3	479.1	487.4	492.9	504.0	517.8	528.9	534.4	540.0	540.0
160°	479.1	481.8	487.4	492.9	501.2	506.8	515.1	523.4	528.9	528.9
162.5°	481.8	484.6	490.1	492.9	498.4	504.0	506.8	506.8	512.3	512.3
165°	481.8	484.6	490.1	492.9	495.7	501.2	501.2	501.2	501.2	501.2
167.5°	481.8	484.6	487.4	490.1	495.7	498.4	498.4	498.4	498.4	498.4
170°	484.6	484.6	487.4	490.1	492.9	495.7	492.9	492.9	492.9	492.9
172.5°	481.8	481.8	484.6	487.4	490.1	490.1	490.1	487.4	487.4	484.6
175°	481.8	481.8	481.8	481.8	484.6	487.4	484.6	481.8	479.1	476.3
177.5°	481.8	481.8	479.1	479.1	479.1	479.1	476.3	473.5	470.8	468.0
180°	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5

(END OF REPORT)