

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: P183765

Luminaire Tested: **I2-WS-5L40-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183765
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-5L40-1D-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)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

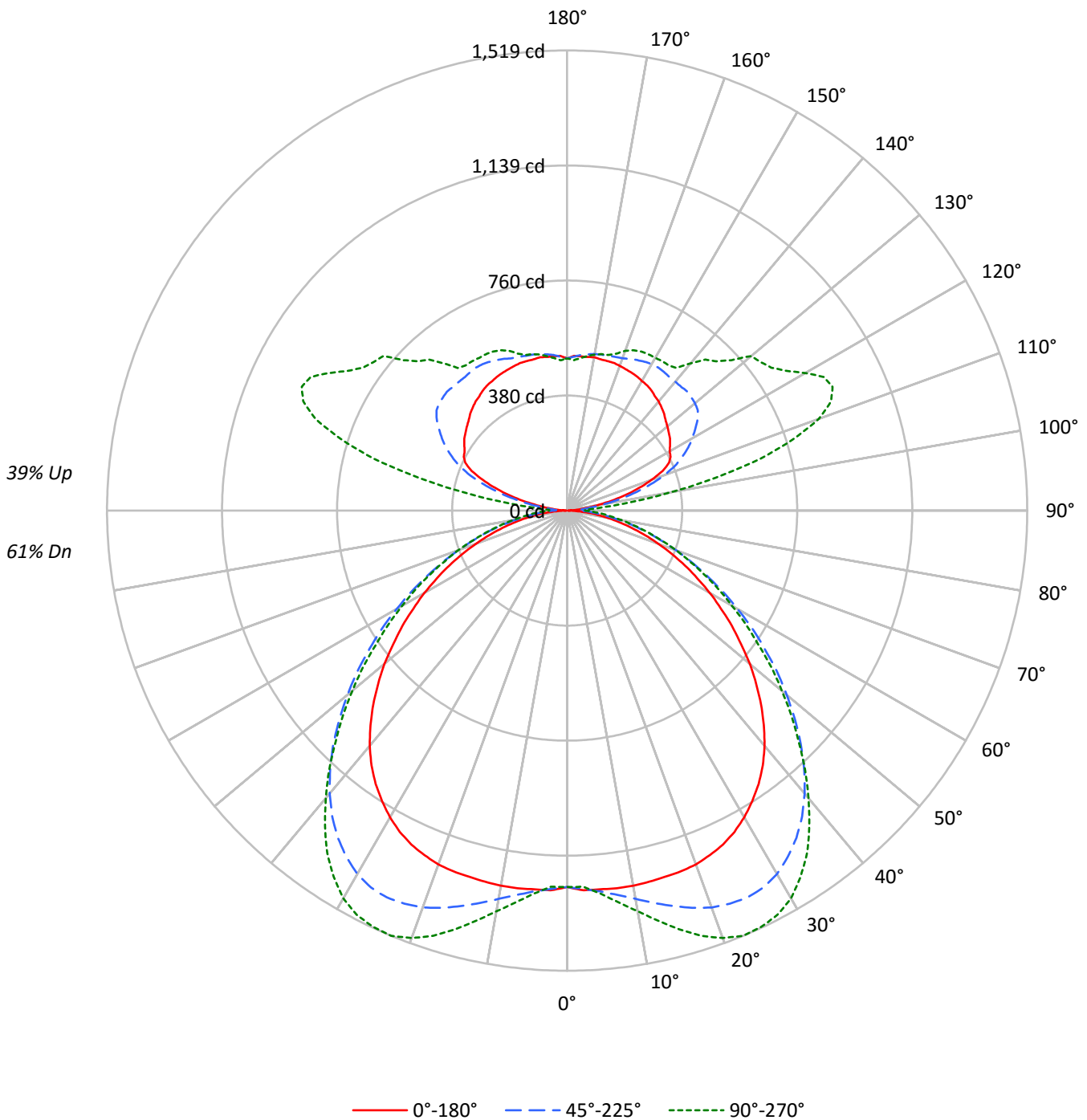
Lumens per Lamp: N/A
Luminaire Lumens: 7010.3 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Direct

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



TEST NUMBER: P183765
CATALOG NUMBER: I2-WS-5L40-1D-UNV-4-STD-DM5

Luminous Intensity Polar Plot





TEST NUMBER: P183765

CATALOG NUMBER: I2-WS-5L40-1D-UNV-4-STD-DM5

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°	9955	9955	9955
5°	10037	9776	9733
10°	10125	9835	9947
15°	10220	10041	10328
20°	10375	10263	10646
25°	10467	10357	10643
30°	10465	10247	10351
35°	10353	9894	9722
40°	10106	9347	8844
45°	9688	8623	7874
50°	9177	7771	6940
55°	8562	6865	5995
60°	7911	5939	5133
65°	7230	4991	4321
70°	6469	4081	3541
75°	5605	3176	2752
80°	4586	2251	2025
85°	3081	1427	1396



TEST NUMBER: P183765

CATALOG NUMBER: I2-WS-5L40-1D-UNV-4-STD-DM5

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	1.7
10°-20°	381.7	5.4
20°-30°	637.3	9.1
30°-40°	796.6	11.4
40°-50°	802.0	11.4
50°-60°	678.7	9.7
60°-70°	484.7	6.9
70°-80°	275.5	3.9
80°-90°	102.1	1.5
90°-100°	88.6	1.3
100°-110°	357.1	5.1
110°-120°	533.8	7.6
120°-130°	518.6	7.4
130°-140°	438.3	6.3
140°-150°	343.6	4.9
150°-160°	251.6	3.6
160°-170°	149.5	2.1
170°-180°	49.1	0.7
0°-30°	1140.4	16.3
0°-40°	1937.0	27.6
0°-60°	3417.7	48.8
0°-90°	4280.1	61.1
90°-120°	979.5	14.0
90°-150°	2280.0	32.5
90°-180°	2730.0	38.9
0°-180°	7010.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1255	1246	1262	1266	1269	120
15°	1252	1271	1352	1413	1431	354
25°	1216	1271	1409	1493	1516	560
35°	1102	1180	1319	1375	1381	688
45°	905	981	1092	1096	1081	697
55°	664	723	796	790	770	593
65°	429	465	508	510	500	425
75°	220	242	269	276	273	235
85°	56	71	93	108	112	62
90°	3	23	43	55	59	6
95°	29	32	50	94	109	40
105°	200	202	236	521	661	210
115°	370	372	419	734	967	357
125°	414	458	526	718	823	370
135°	452	488	558	639	696	349
145°	485	513	558	577	585	303
155°	502	516	548	571	579	232
165°	511	521	529	532	532	145
175°	511	511	516	512	505	49
180°	502	502	502	502	502	



TEST NUMBER: P183765

CATALOG NUMBER: I2-WS-5L40-1D-UNV-4-STD-DM5

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	1242.8	1242.8	1242.8	1242.8	1242.8	1242.8	1242.8	1242.8	1242.8	1242.8
2.5°	1254.6	1248.7	1242.8	1242.8	1242.8	1257.5	1251.6	1248.7	1242.8	1242.8
5°	1254.6	1248.7	1245.7	1248.7	1254.6	1269.2	1266.3	1266.3	1269.2	1269.2
7.5°	1257.5	1251.6	1248.7	1257.5	1269.2	1289.8	1292.8	1298.6	1301.6	1304.5
10°	1257.5	1251.6	1254.6	1269.2	1286.9	1316.3	1325.1	1333.9	1339.8	1342.7
12.5°	1254.6	1251.6	1260.4	1281.0	1307.4	1345.6	1360.3	1375.0	1383.8	1386.8
15°	1251.6	1251.6	1263.4	1292.8	1328.0	1375.0	1395.6	1419.1	1430.8	1430.8
17.5°	1248.7	1248.7	1269.2	1304.5	1348.6	1401.5	1430.8	1454.3	1469.0	1472.0
20°	1242.8	1242.8	1269.2	1313.3	1366.2	1422.0	1454.3	1480.8	1498.4	1501.4
22.5°	1231.1	1236.9	1266.3	1316.3	1375.0	1433.8	1469.0	1495.5	1513.1	1519.0
25°	1216.4	1222.2	1257.5	1313.3	1378.0	1439.7	1474.9	1498.4	1513.1	1516.0
27.5°	1195.8	1204.6	1242.8	1304.5	1372.1	1433.8	1466.1	1486.7	1498.4	1504.3
30°	1169.4	1181.1	1222.2	1286.9	1357.4	1413.2	1445.5	1463.2	1472.0	1477.9
32.5°	1137.0	1148.8	1195.8	1260.4	1330.9	1380.9	1410.3	1425.0	1427.9	1433.8
35°	1101.8	1113.5	1163.5	1228.1	1295.7	1342.7	1366.2	1378.0	1375.0	1380.9
37.5°	1060.6	1072.4	1122.3	1187.0	1251.6	1295.7	1313.3	1316.3	1310.4	1313.3
40°	1013.6	1025.4	1075.3	1140.0	1198.7	1239.9	1248.7	1242.8	1236.9	1239.9
42.5°	960.8	975.4	1022.5	1084.2	1142.9	1172.3	1181.1	1172.3	1160.5	1163.5
45°	904.9	919.6	966.6	1025.4	1078.3	1104.7	1104.7	1093.0	1084.2	1081.2
47.5°	846.2	860.9	904.9	963.7	1007.8	1031.3	1031.3	1019.5	1004.8	1004.8
50°	787.4	799.2	840.3	899.1	934.3	957.8	951.9	940.2	928.4	925.5
52.5°	722.8	740.4	775.7	831.5	863.8	881.4	878.5	866.7	852.0	849.1
55°	664.0	678.7	711.0	758.0	787.4	805.0	799.2	787.4	775.7	769.8
57.5°	602.3	617.0	649.3	687.5	716.9	731.6	725.7	714.0	705.1	699.3
60°	543.5	555.3	584.7	617.0	643.4	655.2	652.3	643.4	634.6	628.7
62.5°	484.8	496.5	520.0	549.4	572.9	584.7	581.7	575.9	567.0	564.1
65°	429.0	437.8	458.3	484.8	502.4	514.2	514.2	508.3	502.4	499.5
67.5°	373.1	381.9	399.6	423.1	437.8	449.5	452.5	446.6	440.7	437.8
70°	320.3	329.1	340.8	361.4	376.1	387.8	390.8	387.8	381.9	381.9
72.5°	270.3	276.2	287.9	302.6	320.3	326.1	329.1	329.1	329.1	326.1
75°	220.4	226.2	238.0	252.7	264.4	273.2	276.2	276.2	273.2	273.2
77.5°	173.3	182.2	188.0	202.7	214.5	220.4	226.2	226.2	226.2	226.2
80°	132.2	138.1	144.0	155.7	164.5	173.3	179.2	182.2	182.2	182.2
82.5°	94.0	99.9	102.8	114.6	123.4	132.2	138.1	144.0	144.0	144.0
85°	55.8	61.7	67.6	79.3	88.1	97.0	105.8	108.7	111.6	111.6
87.5°	23.5	32.3	38.2	49.9	61.7	70.5	76.4	79.3	82.3	82.3
90°	2.9	11.8	20.6	29.4	38.2	47.0	52.9	55.8	58.8	58.8
92.5°	11.8	14.7	17.6	23.5	32.3	41.1	49.9	52.9	58.8	58.8
95°	29.4	35.3	32.3	32.3	38.2	61.7	85.2	97.0	105.8	108.7
97.5°	61.7	64.6	64.6	61.7	67.6	97.0	152.8	185.1	205.7	208.6
100°	99.9	105.8	105.8	99.9	108.7	149.8	246.8	302.6	337.9	349.6
102.5°	149.8	152.8	155.7	144.0	152.8	211.5	340.8	434.8	487.7	502.4
105°	199.8	205.7	205.7	191.0	199.8	273.2	417.2	555.3	631.7	661.1
107.5°	249.7	255.6	252.7	235.0	243.9	334.9	476.0	649.3	752.1	781.5
110°	296.7	302.6	296.7	282.1	290.9	390.8	517.1	722.8	840.3	884.4



TEST NUMBER: P183765

CATALOG NUMBER: I2-WS-5L40-1D-UNV-4-STD-DM5

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	340.8	343.8	337.9	329.1	334.9	434.8	564.1	763.9	902.0	943.1
115°	370.2	379.0	373.1	370.2	376.1	461.3	608.2	775.7	922.6	966.6
117.5°	384.9	402.5	408.4	405.5	417.2	484.8	637.6	763.9	907.9	954.9
120°	390.8	414.3	434.8	437.8	449.5	505.3	646.4	761.0	863.8	907.9
122.5°	402.5	417.2	452.5	461.3	478.9	523.0	643.4	752.1	834.4	857.9
125°	414.3	420.1	452.5	476.0	502.4	549.4	640.5	743.3	808.0	822.7
127.5°	423.1	431.9	452.5	481.8	520.0	567.0	631.7	734.5	784.5	805.0
130°	431.9	440.7	461.3	490.7	525.9	575.9	628.7	708.1	775.7	793.3
132.5°	440.7	452.5	473.0	499.5	534.7	575.9	617.0	666.9	722.8	734.5
135°	452.5	464.2	481.8	508.3	540.6	575.9	617.0	646.4	678.7	696.3
137.5°	461.3	473.0	487.7	517.1	543.5	567.0	599.4	634.6	661.1	675.8
140°	470.1	481.8	496.5	523.0	546.5	564.1	581.7	599.4	619.9	634.6
142.5°	476.0	487.7	502.4	525.9	549.4	561.2	572.9	581.7	590.6	593.5
145°	484.8	493.6	508.3	525.9	552.4	564.1	572.9	578.8	584.7	584.7
147.5°	490.7	496.5	511.2	525.9	552.4	567.0	572.9	578.8	581.7	584.7
150°	493.6	499.5	511.2	525.9	549.4	567.0	572.9	578.8	578.8	581.7
152.5°	499.5	502.4	514.2	525.9	543.5	564.1	570.0	575.9	581.7	581.7
155°	502.4	505.3	514.2	523.0	537.7	558.2	567.0	572.9	575.9	578.8
157.5°	505.3	508.3	517.1	523.0	534.7	549.4	561.2	567.0	572.9	572.9
160°	508.3	511.2	517.1	523.0	531.8	537.7	546.5	555.3	561.2	561.2
162.5°	511.2	514.2	520.0	523.0	528.9	534.7	537.7	537.7	543.5	543.5
165°	511.2	514.2	520.0	523.0	525.9	531.8	531.8	531.8	531.8	531.8
167.5°	511.2	514.2	517.1	520.0	525.9	528.9	528.9	528.9	528.9	528.9
170°	514.2	514.2	517.1	520.0	523.0	525.9	523.0	523.0	523.0	523.0
172.5°	511.2	511.2	514.2	517.1	520.0	520.0	520.0	517.1	517.1	514.2
175°	511.2	511.2	511.2	511.2	514.2	517.1	514.2	511.2	508.3	505.3
177.5°	511.2	511.2	508.3	508.3	508.3	508.3	505.3	502.4	499.5	496.5
180°	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4

(END OF REPORT)