

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: P183763

Luminaire Tested: **I2-WS-3L40-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183763  
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-3L40-1D-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**

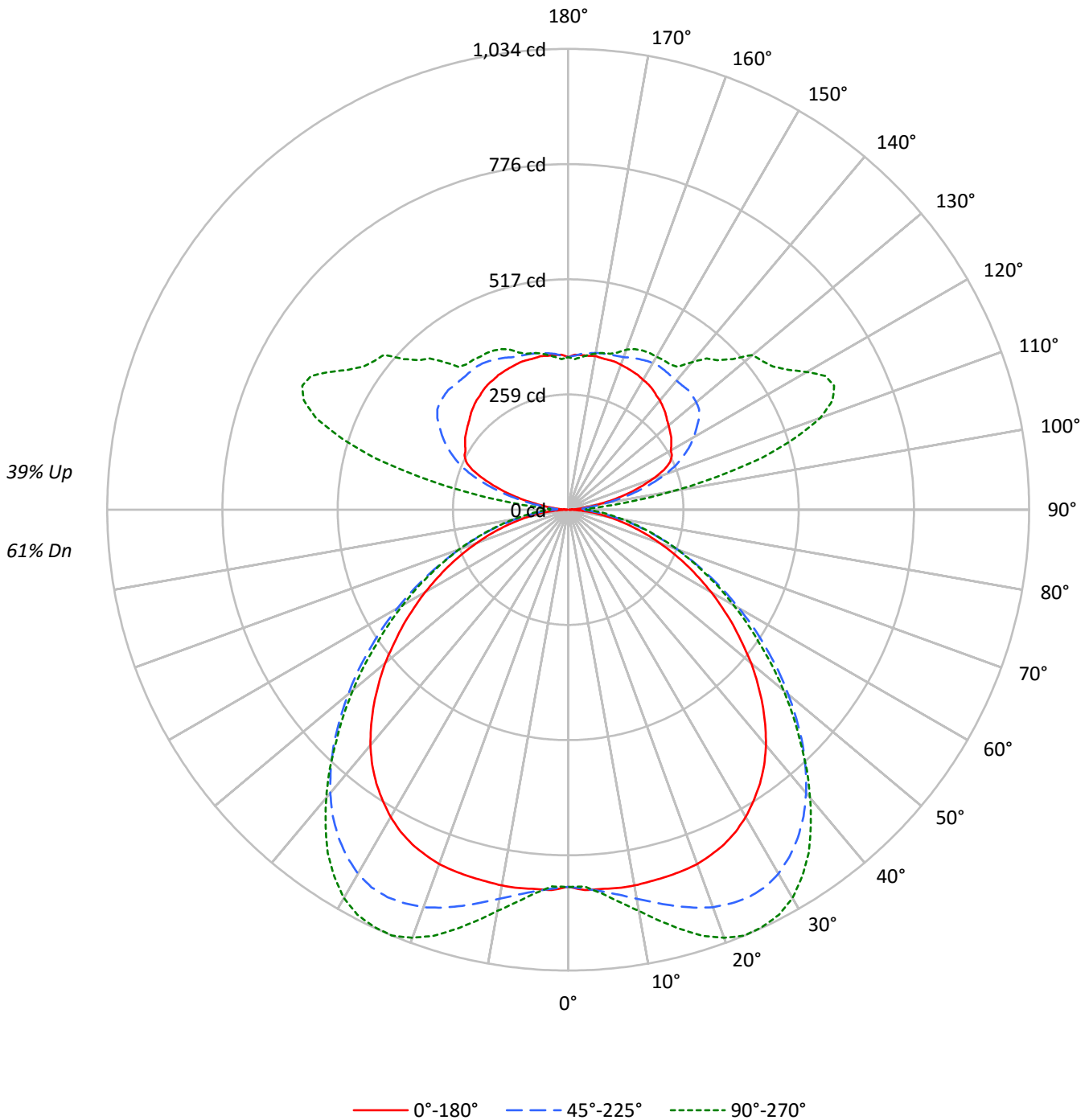
Lumens per Lamp: N/A  
Luminaire Lumens: 4773.1 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: Semi-Direct

Input Watts (W): 46.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	6778	6778	6778
5°	6834	6656	6627
10°	6894	6696	6773
15°	6959	6836	7032
20°	7064	6988	7248
25°	7127	7051	7246
30°	7125	6977	7047
35°	7049	6737	6620
40°	6881	6364	6021
45°	6596	5872	5362
50°	6248	5291	4725
55°	5830	4674	4082
60°	5387	4044	3496
65°	4923	3398	2942
70°	4403	2779	2412
75°	3815	2162	1873
80°	3122	1533	1378
85°	2098	972	950



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.7	1.7
10°-20°	259.9	5.4
20°-30°	433.9	9.1
30°-40°	542.4	11.4
40°-50°	546.0	11.4
50°-60°	462.1	9.7
60°-70°	330.0	6.9
70°-80°	187.6	3.9
80°-90°	69.5	1.5
90°-100°	60.3	1.3
100°-110°	243.1	5.1
110°-120°	363.4	7.6
120°-130°	353.1	7.4
130°-140°	298.4	6.3
140°-150°	234.0	4.9
150°-160°	171.3	3.6
160°-170°	101.8	2.1
170°-180°	33.4	0.7
0°-30°	776.5	16.3
0°-40°	1318.8	27.6
0°-60°	2327.0	48.8
0°-90°	2914.1	61.1
90°-120°	666.9	14.0
90°-150°	1552.4	32.5
90°-180°	1859.0	38.9
0°-180°	4773.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	854	849	859	862	864	82
15°	852	865	920	962	974	241
25°	828	866	959	1016	1032	381
35°	750	803	898	936	940	468
45°	616	668	743	746	736	475
55°	452	492	542	538	524	404
65°	292	317	346	347	340	289
75°	150	164	183	188	186	160
85°	38	48	63	74	76	42
90°	2	16	29	38	40	4
95°	20	22	34	64	74	27
105°	136	138	161	355	450	143
115°	252	254	285	500	658	243
125°	282	312	358	489	560	252
135°	308	333	380	435	474	238
145°	330	349	380	393	398	207
155°	342	352	373	389	394	158
165°	348	355	360	362	362	99
175°	348	348	351	349	344	33
180°	342	342	342	342	342	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	846.2	846.2	846.2	846.2	846.2	846.2	846.2	846.2	846.2	846.2
2.5°	854.2	850.2	846.2	846.2	846.2	856.2	852.2	850.2	846.2	846.2
5°	854.2	850.2	848.2	850.2	854.2	864.2	862.2	862.2	864.2	864.2
7.5°	856.2	852.2	850.2	856.2	864.2	878.2	880.2	884.2	886.2	888.2
10°	856.2	852.2	854.2	864.2	876.2	896.2	902.2	908.2	912.2	914.2
12.5°	854.2	852.2	858.2	872.2	890.2	916.2	926.2	936.2	942.2	944.2
15°	852.2	852.2	860.2	880.2	904.2	936.2	950.2	966.2	974.2	974.2
17.5°	850.2	850.2	864.2	888.2	918.2	954.2	974.2	990.2	1000.2	1002.2
20°	846.2	846.2	864.2	894.2	930.2	968.2	990.2	1008.2	1020.2	1022.2
22.5°	838.2	842.2	862.2	896.2	936.2	976.2	1000.2	1018.2	1030.2	1034.2
25°	828.2	832.2	856.2	894.2	938.2	980.2	1004.2	1020.2	1030.2	1032.2
27.5°	814.2	820.2	846.2	888.2	934.2	976.2	998.2	1012.2	1020.2	1024.2
30°	796.2	804.2	832.2	876.2	924.2	962.2	984.2	996.2	1002.2	1006.2
32.5°	774.2	782.2	814.2	858.2	906.2	940.2	960.2	970.2	972.2	976.2
35°	750.2	758.2	792.2	836.2	882.2	914.2	930.2	938.2	936.2	940.2
37.5°	722.1	730.2	764.2	808.2	852.2	882.2	894.2	896.2	892.2	894.2
40°	690.1	698.1	732.2	776.2	816.2	844.2	850.2	846.2	842.2	844.2
42.5°	654.1	664.1	696.1	738.2	778.2	798.2	804.2	798.2	790.2	792.2
45°	616.1	626.1	658.1	698.1	734.2	752.2	752.2	744.2	738.2	736.2
47.5°	576.1	586.1	616.1	656.1	686.1	702.1	702.1	694.1	684.1	684.1
50°	536.1	544.1	572.1	612.1	636.1	652.1	648.1	640.1	632.1	630.1
52.5°	492.1	504.1	528.1	566.1	588.1	600.1	598.1	590.1	580.1	578.1
55°	452.1	462.1	484.1	516.1	536.1	548.1	544.1	536.1	528.1	524.1
57.5°	410.1	420.1	442.1	468.1	488.1	498.1	494.1	486.1	480.1	476.1
60°	370.1	378.1	398.1	420.1	438.1	446.1	444.1	438.1	432.1	428.1
62.5°	330.1	338.1	354.1	374.1	390.1	398.1	396.1	392.1	386.1	384.1
65°	292.1	298.1	312.1	330.1	342.1	350.1	350.1	346.1	342.1	340.1
67.5°	254.1	260.1	272.1	288.1	298.1	306.1	308.1	304.1	300.1	298.1
70°	218.0	224.0	232.0	246.1	256.1	264.1	266.1	264.1	260.1	260.1
72.5°	184.0	188.0	196.0	206.0	218.0	222.0	224.0	224.0	224.0	222.0
75°	150.0	154.0	162.0	172.0	180.0	186.0	188.0	188.0	186.0	186.0
77.5°	118.0	124.0	128.0	138.0	146.0	150.0	154.0	154.0	154.0	154.0
80°	90.0	94.0	98.0	106.0	112.0	118.0	122.0	124.0	124.0	124.0
82.5°	64.0	68.0	70.0	78.0	84.0	90.0	94.0	98.0	98.0	98.0
85°	38.0	42.0	46.0	54.0	60.0	66.0	72.0	74.0	76.0	76.0
87.5°	16.0	22.0	26.0	34.0	42.0	48.0	52.0	54.0	56.0	56.0
90°	2.0	8.0	14.0	20.0	26.0	32.0	36.0	38.0	40.0	40.0
92.5°	8.0	10.0	12.0	16.0	22.0	28.0	34.0	36.0	40.0	40.0
95°	20.0	24.0	22.0	22.0	26.0	42.0	58.0	66.0	72.0	74.0
97.5°	42.0	44.0	44.0	42.0	46.0	66.0	104.0	126.0	140.0	142.0
100°	68.0	72.0	72.0	68.0	74.0	102.0	168.0	206.0	230.0	238.0
102.5°	102.0	104.0	106.0	98.0	104.0	144.0	232.0	296.1	332.1	342.1
105°	136.0	140.0	140.0	130.0	136.0	186.0	284.1	378.1	430.1	450.1
107.5°	170.0	174.0	172.0	160.0	166.0	228.0	324.1	442.1	512.1	532.1
110°	202.0	206.0	202.0	192.0	198.0	266.1	352.1	492.1	572.1	602.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	232.0	234.0	230.0	224.0	228.0	296.1	384.1	520.1	614.1	642.1
115°	252.1	258.1	254.1	252.1	256.1	314.1	414.1	528.1	628.1	658.1
117.5°	262.1	274.1	278.1	276.1	284.1	330.1	434.1	520.1	618.1	650.1
120°	266.1	282.1	296.1	298.1	306.1	344.1	440.1	518.1	588.1	618.1
122.5°	274.1	284.1	308.1	314.1	326.1	356.1	438.1	512.1	568.1	584.1
125°	282.1	286.1	308.1	324.1	342.1	374.1	436.1	506.1	550.1	560.1
127.5°	288.1	294.1	308.1	328.1	354.1	386.1	430.1	500.1	534.1	548.1
130°	294.1	300.1	314.1	334.1	358.1	392.1	428.1	482.1	528.1	540.1
132.5°	300.1	308.1	322.1	340.1	364.1	392.1	420.1	454.1	492.1	500.1
135°	308.1	316.1	328.1	346.1	368.1	392.1	420.1	440.1	462.1	474.1
137.5°	314.1	322.1	332.1	352.1	370.1	386.1	408.1	432.1	450.1	460.1
140°	320.1	328.1	338.1	356.1	372.1	384.1	396.1	408.1	422.1	432.1
142.5°	324.1	332.1	342.1	358.1	374.1	382.1	390.1	396.1	402.1	404.1
145°	330.1	336.1	346.1	358.1	376.1	384.1	390.1	394.1	398.1	398.1
147.5°	334.1	338.1	348.1	358.1	376.1	386.1	390.1	394.1	396.1	398.1
150°	336.1	340.1	348.1	358.1	374.1	386.1	390.1	394.1	394.1	396.1
152.5°	340.1	342.1	350.1	358.1	370.1	384.1	388.1	392.1	396.1	396.1
155°	342.1	344.1	350.1	356.1	366.1	380.1	386.1	390.1	392.1	394.1
157.5°	344.1	346.1	352.1	356.1	364.1	374.1	382.1	386.1	390.1	390.1
160°	346.1	348.1	352.1	356.1	362.1	366.1	372.1	378.1	382.1	382.1
162.5°	348.1	350.1	354.1	356.1	360.1	364.1	366.1	366.1	370.1	370.1
165°	348.1	350.1	354.1	356.1	358.1	362.1	362.1	362.1	362.1	362.1
167.5°	348.1	350.1	352.1	354.1	358.1	360.1	360.1	360.1	360.1	360.1
170°	350.1	350.1	352.1	354.1	356.1	358.1	356.1	356.1	356.1	356.1
172.5°	348.1	348.1	350.1	352.1	354.1	354.1	354.1	352.1	352.1	350.1
175°	348.1	348.1	348.1	348.1	350.1	352.1	350.1	348.1	346.1	344.1
177.5°	348.1	348.1	346.1	346.1	346.1	346.1	344.1	342.1	340.1	338.1
180°	342.1	342.1	342.1	342.1	342.1	342.1	342.1	342.1	342.1	342.1

(END OF REPORT)