

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: P183754

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183754  
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-4L30-1D-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**

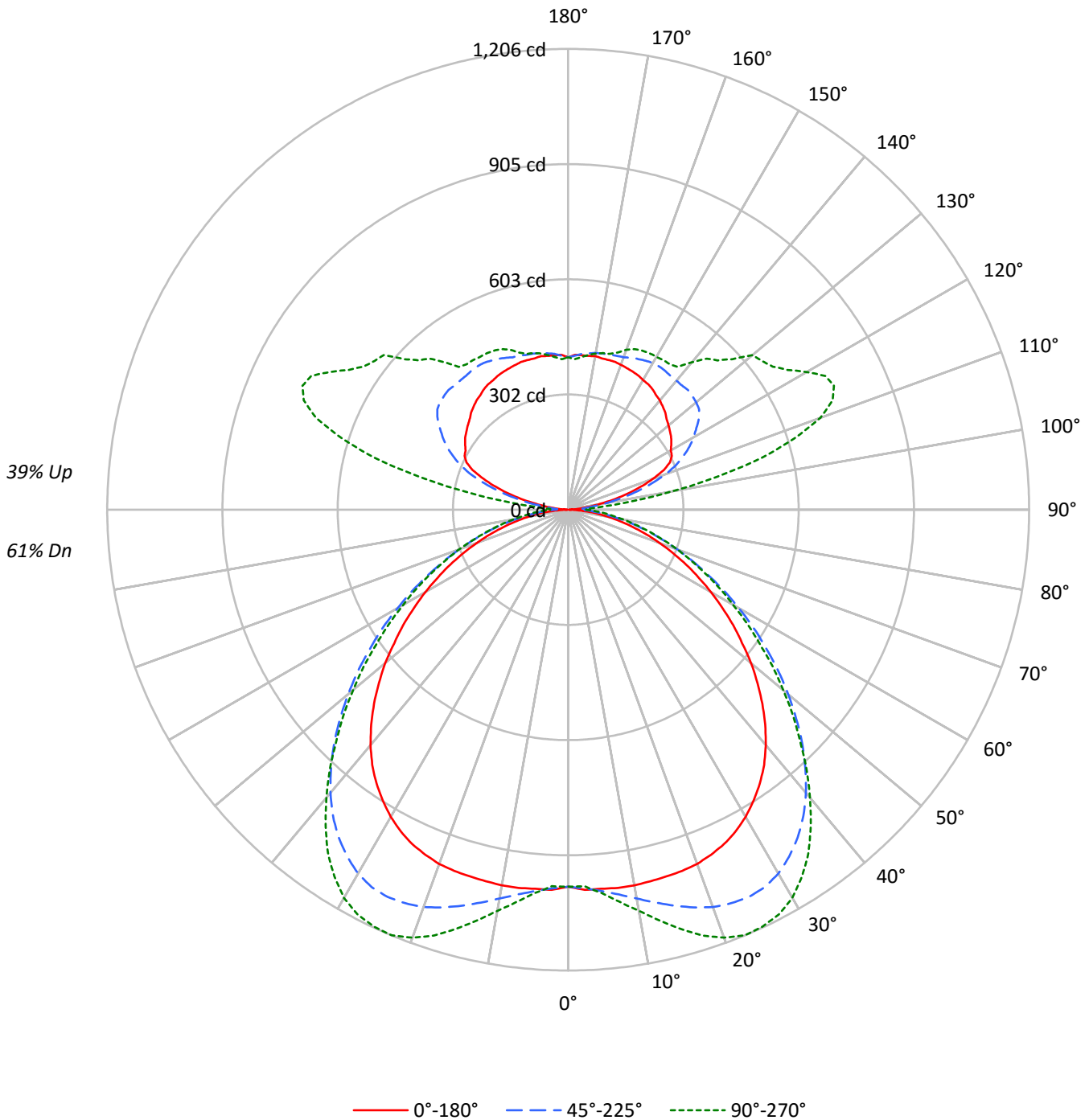
Lumens per Lamp: N/A  
Luminaire Lumens: 5564.3 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: Semi-Direct

Input Watts (W): 63.7  
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°	7901	7901	7901
5°	7967	7759	7725
10°	8036	7806	7895
15°	8112	7970	8198
20°	8234	8146	8450
25°	8308	8220	8447
30°	8306	8133	8215
35°	8217	7853	7717
40°	8021	7419	7019
45°	7690	6845	6250
50°	7284	6168	5508
55°	6796	5450	4758
60°	6279	4714	4075
65°	5739	3961	3429
70°	5134	3239	2811
75°	4448	2522	2185
80°	3639	1788	1607
85°	2446	1134	1108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.4	1.7
10°-20°	303.0	5.4
20°-30°	505.8	9.1
30°-40°	632.3	11.4
40°-50°	636.6	11.4
50°-60°	538.7	9.7
60°-70°	384.7	6.9
70°-80°	218.7	3.9
80°-90°	81.1	1.5
90°-100°	70.3	1.3
100°-110°	283.4	5.1
110°-120°	423.7	7.6
120°-130°	411.6	7.4
130°-140°	347.9	6.3
140°-150°	272.7	4.9
150°-160°	199.7	3.6
160°-170°	118.7	2.1
170°-180°	39.0	0.7
0°-30°	905.2	16.3
0°-40°	1537.4	27.6
0°-60°	2712.7	48.8
0°-90°	3397.2	61.1
90°-120°	777.5	14.0
90°-150°	1809.7	32.5
90°-180°	2167.0	38.9
0°-180°	5564.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	996	989	1002	1005	1007	95
15°	993	1009	1073	1122	1136	281
25°	966	1009	1118	1185	1203	445
35°	874	936	1047	1091	1096	546
45°	718	779	866	870	858	553
55°	527	574	632	627	611	471
65°	340	369	403	405	396	337
75°	175	192	213	219	217	186
85°	44	56	74	86	89	49
90°	2	18	34	44	47	4
95°	23	26	40	75	86	32
105°	159	160	188	413	525	167
115°	294	296	332	582	767	283
125°	329	364	417	570	653	294
135°	359	388	443	507	553	277
145°	385	407	443	458	464	241
155°	399	410	435	454	459	184
165°	406	413	420	422	422	115
175°	406	406	409	406	401	39
180°	399	399	399	399	399	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	986.4	986.4	986.4	986.4	986.4	986.4	986.4	986.4	986.4	986.4
2.5°	995.8	991.1	986.4	986.4	986.4	998.1	993.4	991.1	986.4	986.4
5°	995.8	991.1	988.8	991.1	995.8	1007.4	1005.1	1005.1	1007.4	1007.4
7.5°	998.1	993.4	991.1	998.1	1007.4	1023.8	1026.1	1030.8	1033.1	1035.4
10°	998.1	993.4	995.8	1007.4	1021.4	1044.7	1051.7	1058.7	1063.4	1065.7
12.5°	995.8	993.4	1000.4	1016.8	1037.8	1068.1	1079.7	1091.4	1098.4	1100.7
15°	993.4	993.4	1002.8	1026.1	1054.1	1091.4	1107.7	1126.4	1135.7	1135.7
17.5°	991.1	991.1	1007.4	1035.4	1070.4	1112.4	1135.7	1154.4	1166.0	1168.3
20°	986.4	986.4	1007.4	1042.4	1084.4	1128.7	1154.4	1175.3	1189.3	1191.7
22.5°	977.1	981.8	1005.1	1044.7	1091.4	1138.0	1166.0	1187.0	1201.0	1205.7
25°	965.5	970.1	998.1	1042.4	1093.7	1142.7	1170.7	1189.3	1201.0	1203.3
27.5°	949.1	956.1	986.4	1035.4	1089.1	1138.0	1163.7	1180.0	1189.3	1194.0
30°	928.1	937.5	970.1	1021.4	1077.4	1121.7	1147.4	1161.3	1168.3	1173.0
32.5°	902.5	911.8	949.1	1000.4	1056.4	1096.1	1119.4	1131.0	1133.4	1138.0
35°	874.5	883.8	923.5	974.8	1028.4	1065.7	1084.4	1093.7	1091.4	1096.1
37.5°	841.9	851.2	890.8	942.1	993.4	1028.4	1042.4	1044.7	1040.1	1042.4
40°	804.5	813.9	853.5	904.8	951.5	984.1	991.1	986.4	981.8	984.1
42.5°	762.6	774.2	811.5	860.5	907.2	930.5	937.5	930.5	921.1	923.5
45°	718.3	729.9	767.2	813.9	855.9	876.8	876.8	867.5	860.5	858.2
47.5°	671.6	683.3	718.3	764.9	799.9	818.5	818.5	809.2	797.6	797.6
50°	625.0	634.3	667.0	713.6	741.6	760.2	755.6	746.2	736.9	734.6
52.5°	573.7	587.7	615.7	660.0	685.6	699.6	697.3	687.9	676.3	674.0
55°	527.0	538.7	564.4	601.7	625.0	639.0	634.3	625.0	615.7	611.0
57.5°	478.1	489.7	515.4	545.7	569.0	580.7	576.0	566.7	559.7	555.0
60°	431.4	440.8	464.1	489.7	510.7	520.0	517.7	510.7	503.7	499.1
62.5°	384.8	394.1	412.8	436.1	454.7	464.1	461.7	457.1	450.1	447.7
65°	340.5	347.5	363.8	384.8	398.8	408.1	408.1	403.4	398.8	396.4
67.5°	296.2	303.2	317.2	335.8	347.5	356.8	359.1	354.5	349.8	347.5
70°	254.2	261.2	270.5	286.8	298.5	307.8	310.2	307.8	303.2	303.2
72.5°	214.5	219.2	228.5	240.2	254.2	258.9	261.2	261.2	261.2	258.9
75°	174.9	179.6	188.9	200.6	209.9	216.9	219.2	219.2	216.9	216.9
77.5°	137.6	144.6	149.2	160.9	170.2	174.9	179.6	179.6	179.6	179.6
80°	104.9	109.6	114.3	123.6	130.6	137.6	142.3	144.6	144.6	144.6
82.5°	74.6	79.3	81.6	90.9	97.9	104.9	109.6	114.3	114.3	114.3
85°	44.3	49.0	53.6	63.0	70.0	77.0	84.0	86.3	88.6	88.6
87.5°	18.7	25.7	30.3	39.6	49.0	56.0	60.6	63.0	65.3	65.3
90°	2.3	9.3	16.3	23.3	30.3	37.3	42.0	44.3	46.6	46.6
92.5°	9.3	11.7	14.0	18.7	25.7	32.6	39.6	42.0	46.6	46.6
95°	23.3	28.0	25.7	25.7	30.3	49.0	67.6	77.0	84.0	86.3
97.5°	49.0	51.3	51.3	49.0	53.6	77.0	121.3	146.9	163.2	165.6
100°	79.3	84.0	84.0	79.3	86.3	118.9	195.9	240.2	268.2	277.5
102.5°	118.9	121.3	123.6	114.3	121.3	167.9	270.5	345.1	387.1	398.8
105°	158.6	163.2	163.2	151.6	158.6	216.9	331.1	440.8	501.4	524.7
107.5°	198.2	202.9	200.6	186.6	193.6	265.9	377.8	515.4	597.0	620.3
110°	235.5	240.2	235.5	223.9	230.9	310.2	410.4	573.7	667.0	701.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	270.5	272.8	268.2	261.2	265.9	345.1	447.7	606.3	715.9	748.6
115°	293.8	300.8	296.2	293.8	298.5	366.1	482.7	615.7	732.3	767.2
117.5°	305.5	319.5	324.2	321.8	331.1	384.8	506.0	606.3	720.6	757.9
120°	310.2	328.8	345.1	347.5	356.8	401.1	513.0	604.0	685.6	720.6
122.5°	319.5	331.1	359.1	366.1	380.1	415.1	510.7	597.0	662.3	681.0
125°	328.8	333.5	359.1	377.8	398.8	436.1	508.4	590.0	641.3	653.0
127.5°	335.8	342.8	359.1	382.5	412.8	450.1	501.4	583.0	622.7	639.0
130°	342.8	349.8	366.1	389.4	417.4	457.1	499.1	562.0	615.7	629.6
132.5°	349.8	359.1	375.5	396.4	424.4	457.1	489.7	529.4	573.7	583.0
135°	359.1	368.5	382.5	403.4	429.1	457.1	489.7	513.0	538.7	552.7
137.5°	366.1	375.5	387.1	410.4	431.4	450.1	475.7	503.7	524.7	536.4
140°	373.1	382.5	394.1	415.1	433.8	447.7	461.7	475.7	492.1	503.7
142.5°	377.8	387.1	398.8	417.4	436.1	445.4	454.7	461.7	468.7	471.1
145°	384.8	391.8	403.4	417.4	438.4	447.7	454.7	459.4	464.1	464.1
147.5°	389.4	394.1	405.8	417.4	438.4	450.1	454.7	459.4	461.7	464.1
150°	391.8	396.4	405.8	417.4	436.1	450.1	454.7	459.4	459.4	461.7
152.5°	396.4	398.8	408.1	417.4	431.4	447.7	452.4	457.1	461.7	461.7
155°	398.8	401.1	408.1	415.1	426.8	443.1	450.1	454.7	457.1	459.4
157.5°	401.1	403.4	410.4	415.1	424.4	436.1	445.4	450.1	454.7	454.7
160°	403.4	405.8	410.4	415.1	422.1	426.8	433.8	440.8	445.4	445.4
162.5°	405.8	408.1	412.8	415.1	419.8	424.4	426.8	426.8	431.4	431.4
165°	405.8	408.1	412.8	415.1	417.4	422.1	422.1	422.1	422.1	422.1
167.5°	405.8	408.1	410.4	412.8	417.4	419.8	419.8	419.8	419.8	419.8
170°	408.1	408.1	410.4	412.8	415.1	417.4	415.1	415.1	415.1	415.1
172.5°	405.8	405.8	408.1	410.4	412.8	412.8	412.8	410.4	410.4	408.1
175°	405.8	405.8	405.8	405.8	408.1	410.4	408.1	405.8	403.4	401.1
177.5°	405.8	405.8	403.4	403.4	403.4	403.4	401.1	398.8	396.4	394.1
180°	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8	398.8

(END OF REPORT)