

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: P183758

Luminaire Tested: **I2-WS-3L35-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183758
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-3L35-1D-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)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

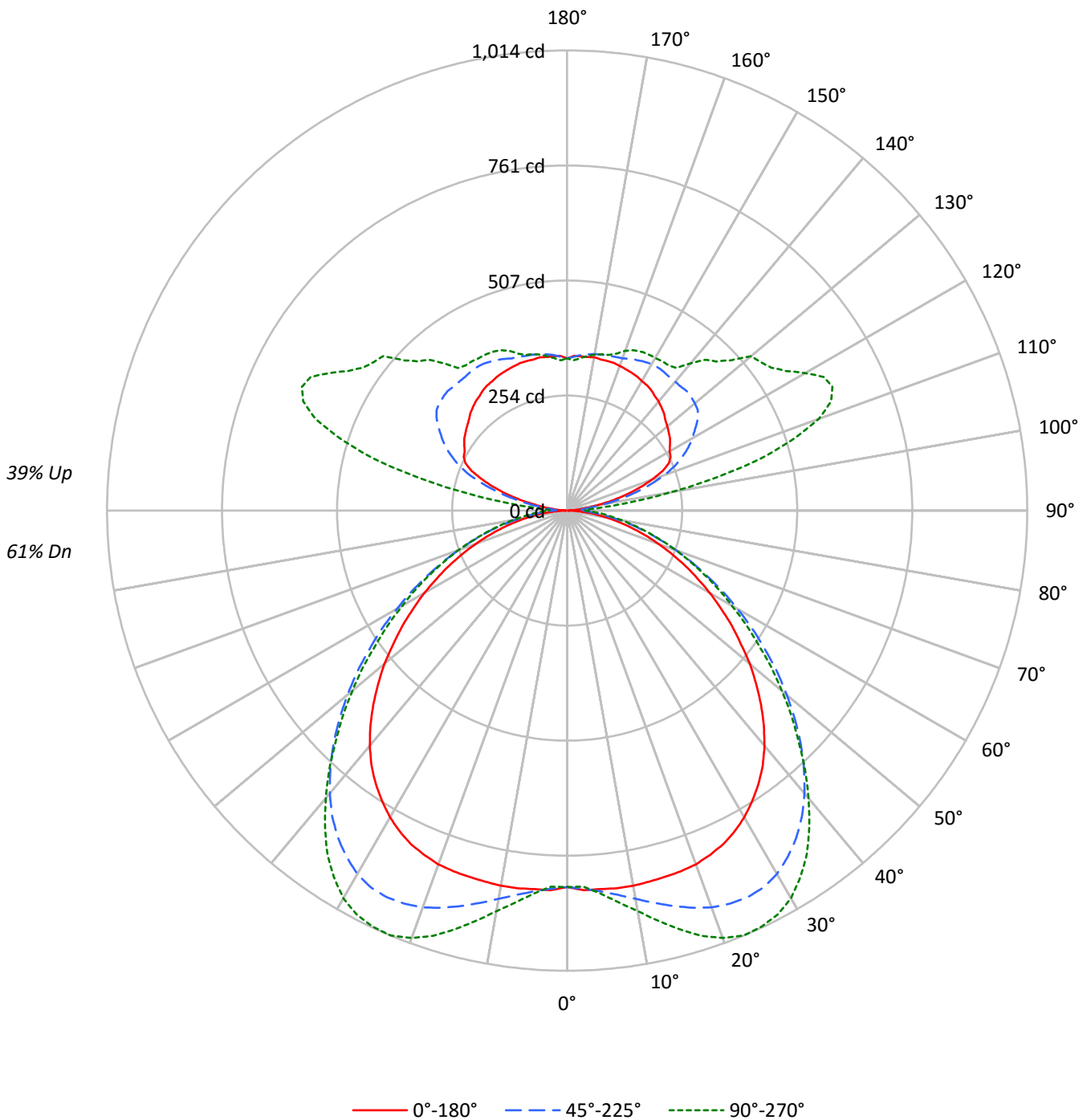
Lumens per Lamp: N/A
Luminaire Lumens: 4678.6 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 46.3
Input Voltage (V): NR
Input Current (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°	6644	6644	6644
5°	6699	6524	6496
10°	6757	6563	6639
15°	6821	6701	6893
20°	6924	6850	7105
25°	6986	6912	7103
30°	6984	6839	6908
35°	6909	6603	6489
40°	6745	6238	5902
45°	6465	5755	5255
50°	6124	5186	4632
55°	5714	4582	4001
60°	5281	3964	3426
65°	4825	3330	2883
70°	4316	2723	2363
75°	3741	2120	1837
80°	3060	1503	1352
85°	2060	952	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	1.7
10°-20°	254.7	5.4
20°-30°	425.3	9.1
30°-40°	531.6	11.4
40°-50°	535.2	11.4
50°-60°	453.0	9.7
60°-70°	323.5	6.9
70°-80°	183.9	3.9
80°-90°	68.2	1.5
90°-100°	59.1	1.3
100°-110°	238.3	5.1
110°-120°	356.2	7.6
120°-130°	346.1	7.4
130°-140°	292.5	6.3
140°-150°	229.3	4.9
150°-160°	167.9	3.6
160°-170°	99.8	2.1
170°-180°	32.8	0.7
0°-30°	761.1	16.3
0°-40°	1292.7	27.6
0°-60°	2280.9	48.8
0°-90°	2856.5	61.1
90°-120°	653.7	14.0
90°-150°	1521.7	32.5
90°-180°	1822.0	38.9
0°-180°	4678.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	837	832	842	845	847	80
15°	835	848	902	943	955	237
25°	812	849	940	996	1012	374
35°	735	787	880	918	922	459
45°	604	655	728	731	722	465
55°	443	482	531	527	514	396
65°	286	310	339	340	333	284
75°	147	161	179	184	182	157
85°	37	47	62	72	74	41
90°	2	15	28	37	39	4
95°	20	22	33	63	73	27
105°	133	135	158	348	441	140
115°	247	249	279	490	645	238
125°	276	306	351	479	549	247
135°	302	326	373	426	465	233
145°	324	342	373	385	390	202
155°	335	345	366	381	386	155
165°	341	348	353	355	355	97
175°	341	341	344	342	337	33
180°	335	335	335	335	335	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	829.4	829.4	829.4	829.4	829.4	829.4	829.4	829.4	829.4	829.4
2.5°	837.3	833.3	829.4	829.4	829.4	839.2	835.3	833.3	829.4	829.4
5°	837.3	833.3	831.4	833.3	837.3	847.1	845.1	845.1	847.1	847.1
7.5°	839.2	835.3	833.3	839.2	847.1	860.8	862.8	866.7	868.6	870.6
10°	839.2	835.3	837.3	847.1	858.8	878.4	884.3	890.2	894.1	896.1
12.5°	837.3	835.3	841.2	854.9	872.6	898.1	907.9	917.7	923.5	925.5
15°	835.3	835.3	843.2	862.8	886.3	917.7	931.4	947.1	954.9	954.9
17.5°	833.3	833.3	847.1	870.6	900.0	935.3	954.9	970.6	980.4	982.4
20°	829.4	829.4	847.1	876.5	911.8	949.0	970.6	988.3	1000.0	1002.0
22.5°	821.6	825.5	845.1	878.4	917.7	956.9	980.4	998.1	1009.8	1013.7
25°	811.8	815.7	839.2	876.5	919.6	960.8	984.3	1000.0	1009.8	1011.8
27.5°	798.1	803.9	829.4	870.6	915.7	956.9	978.4	992.2	1000.0	1003.9
30°	780.4	788.2	815.7	858.8	905.9	943.2	964.7	976.5	982.4	986.3
32.5°	758.8	766.7	798.1	841.2	888.3	921.6	941.2	951.0	953.0	956.9
35°	735.3	743.2	776.5	819.6	864.7	896.1	911.8	919.6	917.7	921.6
37.5°	707.9	715.7	749.0	792.2	835.3	864.7	876.5	878.4	874.5	876.5
40°	676.5	684.3	717.7	760.8	800.0	827.5	833.3	829.4	825.5	827.5
42.5°	641.2	651.0	682.4	723.5	762.8	782.4	788.2	782.4	774.5	776.5
45°	603.9	613.7	645.1	684.3	719.6	737.3	737.3	729.4	723.5	721.6
47.5°	564.7	574.5	603.9	643.1	672.6	688.2	688.2	680.4	670.6	670.6
50°	525.5	533.3	560.8	600.0	623.5	639.2	635.3	627.5	619.6	617.7
52.5°	482.4	494.1	517.7	554.9	576.5	588.2	586.3	578.4	568.6	566.7
55°	443.1	452.9	474.5	505.9	525.5	537.3	533.3	525.5	517.7	513.7
57.5°	402.0	411.8	433.3	458.8	478.4	488.2	484.3	476.5	470.6	466.7
60°	362.8	370.6	390.2	411.8	429.4	437.3	435.3	429.4	423.5	419.6
62.5°	323.5	331.4	347.1	366.7	382.4	390.2	388.2	384.3	378.4	376.5
65°	286.3	292.2	305.9	323.5	335.3	343.1	343.1	339.2	335.3	333.3
67.5°	249.0	254.9	266.7	282.4	292.2	300.0	302.0	298.0	294.1	292.2
70°	213.7	219.6	227.5	241.2	251.0	258.8	260.8	258.8	254.9	254.9
72.5°	180.4	184.3	192.2	202.0	213.7	217.7	219.6	219.6	219.6	217.7
75°	147.1	151.0	158.8	168.6	176.5	182.4	184.3	184.3	182.4	182.4
77.5°	115.7	121.6	125.5	135.3	143.1	147.1	151.0	151.0	151.0	151.0
80°	88.2	92.2	96.1	103.9	109.8	115.7	119.6	121.6	121.6	121.6
82.5°	62.7	66.7	68.6	76.5	82.4	88.2	92.2	96.1	96.1	96.1
85°	37.3	41.2	45.1	52.9	58.8	64.7	70.6	72.6	74.5	74.5
87.5°	15.7	21.6	25.5	33.3	41.2	47.1	51.0	52.9	54.9	54.9
90°	2.0	7.8	13.7	19.6	25.5	31.4	35.3	37.3	39.2	39.2
92.5°	7.8	9.8	11.8	15.7	21.6	27.5	33.3	35.3	39.2	39.2
95°	19.6	23.5	21.6	21.6	25.5	41.2	56.9	64.7	70.6	72.6
97.5°	41.2	43.1	43.1	41.2	45.1	64.7	102.0	123.5	137.3	139.2
100°	66.7	70.6	70.6	66.7	72.6	100.0	164.7	202.0	225.5	233.3
102.5°	100.0	102.0	103.9	96.1	102.0	141.2	227.5	290.2	325.5	335.3
105°	133.3	137.3	137.3	127.5	133.3	182.4	278.4	370.6	421.6	441.2
107.5°	166.7	170.6	168.6	156.9	162.7	223.5	317.7	433.3	502.0	521.6
110°	198.0	202.0	198.0	188.2	194.1	260.8	345.1	482.4	560.8	590.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	227.5	229.4	225.5	219.6	223.5	290.2	376.5	509.8	602.0	629.4
115°	247.1	252.9	249.0	247.1	251.0	307.8	405.9	517.7	615.7	645.1
117.5°	256.9	268.6	272.6	270.6	278.4	323.5	425.5	509.8	605.9	637.3
120°	260.8	276.5	290.2	292.2	300.0	337.3	431.4	507.9	576.5	605.9
122.5°	268.6	278.4	302.0	307.8	319.6	349.0	429.4	502.0	556.9	572.6
125°	276.5	280.4	302.0	317.7	335.3	366.7	427.5	496.1	539.2	549.0
127.5°	282.4	288.2	302.0	321.6	347.1	378.4	421.6	490.2	523.5	537.3
130°	288.2	294.1	307.8	327.5	351.0	384.3	419.6	472.6	517.7	529.4
132.5°	294.1	302.0	315.7	333.3	356.9	384.3	411.8	445.1	482.4	490.2
135°	302.0	309.8	321.6	339.2	360.8	384.3	411.8	431.4	452.9	464.7
137.5°	307.8	315.7	325.5	345.1	362.8	378.4	400.0	423.5	441.2	451.0
140°	313.7	321.6	331.4	349.0	364.7	376.5	388.2	400.0	413.7	423.5
142.5°	317.7	325.5	335.3	351.0	366.7	374.5	382.4	388.2	394.1	396.1
145°	323.5	329.4	339.2	351.0	368.6	376.5	382.4	386.3	390.2	390.2
147.5°	327.5	331.4	341.2	351.0	368.6	378.4	382.4	386.3	388.2	390.2
150°	329.4	333.3	341.2	351.0	366.7	378.4	382.4	386.3	386.3	388.2
152.5°	333.3	335.3	343.1	351.0	362.8	376.5	380.4	384.3	388.2	388.2
155°	335.3	337.3	343.1	349.0	358.8	372.6	378.4	382.4	384.3	386.3
157.5°	337.3	339.2	345.1	349.0	356.9	366.7	374.5	378.4	382.4	382.4
160°	339.2	341.2	345.1	349.0	354.9	358.8	364.7	370.6	374.5	374.5
162.5°	341.2	343.1	347.1	349.0	352.9	356.9	358.8	358.8	362.8	362.8
165°	341.2	343.1	347.1	349.0	351.0	354.9	354.9	354.9	354.9	354.9
167.5°	341.2	343.1	345.1	347.1	351.0	352.9	352.9	352.9	352.9	352.9
170°	343.1	343.1	345.1	347.1	349.0	351.0	349.0	349.0	349.0	349.0
172.5°	341.2	341.2	343.1	345.1	347.1	347.1	347.1	345.1	345.1	343.1
175°	341.2	341.2	341.2	341.2	343.1	345.1	343.1	341.2	339.2	337.3
177.5°	341.2	341.2	339.2	339.2	339.2	339.2	337.3	335.3	333.3	331.4
180°	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3

(END OF REPORT)