

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: P183748

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26978)
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
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.
Light Source: (336)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5010.9 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 1.69 / 1.63
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: General Diffuse

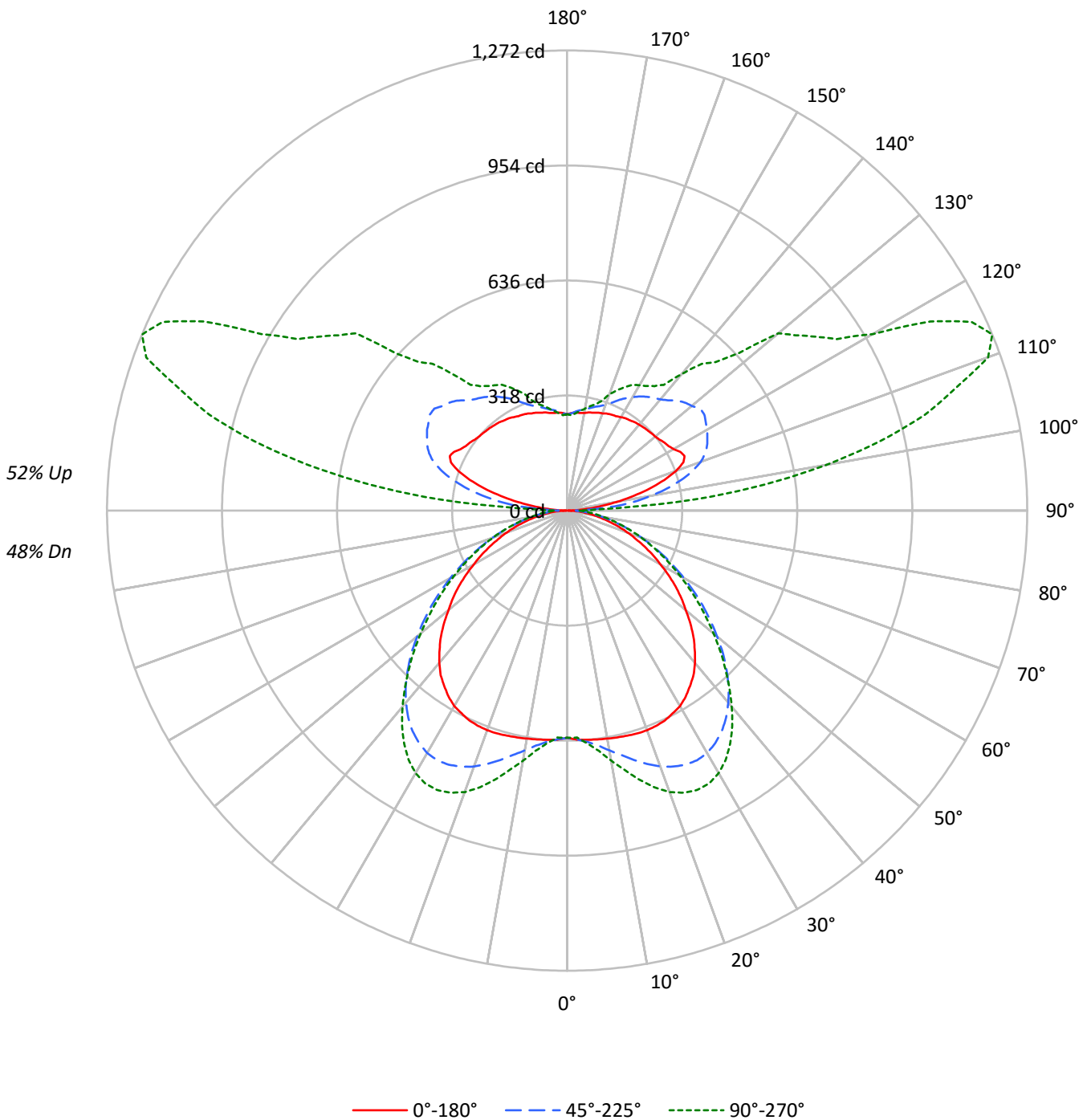
Input Watts (W): 46.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	82	82	82		67	67	67		54	54	54	48
1	97	93	89	85	89	85	82	79	72	69	67		59	57	56		47	46	45	40
2	88	81	75	69	81	74	69	64	63	59	55		52	49	46		42	40	38	33
3	80	71	63	57	74	65	59	54	55	50	46		45	42	39		37	34	32	28
4	73	62	54	48	67	58	51	45	49	43	39		40	36	33		33	30	27	24
5	67	56	47	41	62	51	44	39	43	38	34		36	32	29		29	26	24	20
6	62	50	41	36	57	46	39	33	39	33	29		32	28	25		26	23	21	18
7	57	45	37	31	52	41	34	29	35	30	25		29	25	22		24	21	18	16
8	53	40	33	27	48	38	31	26	32	26	22		27	22	19		22	19	16	14
9	49	37	29	24	45	34	27	23	29	24	20		25	20	17		20	17	15	12
10	46	34	26	22	42	31	25	20	27	22	18		23	18	15		19	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5031	5031	5031
5°	5088	4974	4954
10°	5153	5085	5201
15°	5259	5305	5558
20°	5393	5544	5871
25°	5507	5697	5981
30°	5584	5725	5869
35°	5563	5588	5534
40°	5484	5313	5050
45°	5289	4922	4501
50°	4988	4444	3959
55°	4720	3941	3442
60°	4337	3403	2939
65°	3977	2877	2474
70°	3595	2340	2021
75°	3103	1808	1571
80°	2567	1293	1134
85°	1877	817	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	1.2
10°-20°	201.9	4.0
20°-30°	349.4	7.0
30°-40°	446.7	8.9
40°-50°	453.6	9.1
50°-60°	384.6	7.7
60°-70°	275.3	5.5
70°-80°	156.5	3.1
80°-90°	58.5	1.2
90°-100°	186.5	3.7
100°-110°	518.1	10.3
110°-120°	599.0	12.0
120°-130°	475.7	9.5
130°-140°	342.5	6.8
140°-150°	234.7	4.7
150°-160°	155.3	3.1
160°-170°	84.2	1.7
170°-180°	26.4	0.5
0°-30°	613.3	12.2
0°-40°	1060.0	21.2
0°-60°	1898.2	37.9
0°-90°	2388.5	47.7
90°-120°	1303.6	26.0
90°-150°	2356.6	47.0
90°-180°	2622.0	52.3
0°-180°	5010.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	636	632	642	646	646	61
15°	644	661	714	756	770	183
25°	640	682	775	834	852	295
35°	592	648	745	784	786	370
45°	494	546	623	630	618	380
55°	366	406	457	452	442	326
65°	236	262	293	291	286	234
75°	122	136	153	156	156	131
85°	34	42	53	62	62	36
90°	2	15	24	32	32	5
95°	54	68	130	298	356	63
105°	238	246	326	809	1024	247
115°	358	370	427	874	1234	344
125°	328	382	463	704	838	294
135°	314	350	430	525	580	243
145°	304	330	384	410	420	191
155°	292	301	337	366	376	135
165°	280	285	297	304	304	80
175°	272	272	275	274	270	26
180°	266	266	266	266	266	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	628	628	628	628	628	628	628	628	628	628
2.5°	634	632	628	628	630	636	634	632	630	628
5°	636	632	632	634	638	646	646	646	646	646
7.5°	638	636	636	642	648	662	664	668	670	670
10°	640	638	642	652	664	682	690	696	700	702
12.5°	642	642	648	662	680	704	716	726	732	734
15°	644	646	656	676	700	728	746	760	768	770
17.5°	646	648	662	686	716	752	772	790	800	802
20°	646	650	668	698	734	772	796	814	824	828
22.5°	644	648	670	706	746	786	812	830	842	844
25°	640	646	672	710	754	796	822	838	848	852
27.5°	632	640	668	710	758	798	824	838	846	850
30°	624	632	662	706	754	794	816	830	836	838
32.5°	610	620	650	696	744	780	802	812	816	816
35°	592	602	636	682	728	762	780	786	786	786
37.5°	574	584	616	662	706	738	752	754	752	750
40°	550	560	592	638	680	706	716	714	710	708
42.5°	522	532	566	608	650	672	676	672	666	664
45°	494	504	536	578	614	632	634	628	620	618
47.5°	462	472	502	544	576	592	590	584	576	574
50°	428	440	468	508	534	548	546	538	530	528
52.5°	398	408	434	470	494	504	502	494	486	484
55°	366	374	398	430	452	462	458	450	442	442
57.5°	332	340	362	390	410	418	414	408	402	400
60°	298	308	328	352	370	374	372	366	362	360
62.5°	268	276	294	314	328	336	332	328	322	322
65°	236	244	258	276	290	296	294	290	286	286
67.5°	206	212	226	242	252	258	256	254	250	250
70°	178	182	194	206	216	222	222	220	218	218
72.5°	150	154	164	174	182	188	190	186	186	186
75°	122	128	134	144	150	156	158	156	156	156
77.5°	98	102	108	116	120	126	128	128	128	128
80°	74	78	84	88	94	100	102	102	104	102
82.5°	54	56	60	66	70	76	80	80	82	82
85°	34	36	40	46	50	56	60	62	62	62
87.5°	14	20	24	30	34	40	44	46	46	46
90°	2	10	14	18	22	26	30	32	32	32
92.5°	22	28	30	34	44	62	80	84	88	88
95°	54	64	68	70	94	166	254	312	342	356
97.5°	96	106	112	108	138	234	378	474	532	550
100°	140	152	158	148	182	292	490	614	696	728
102.5°	188	200	206	188	220	346	582	744	844	886
105°	238	246	252	228	256	396	656	860	978	1024
107.5°	282	288	292	268	288	438	690	952	1092	1126
110°	320	326	326	306	318	468	690	1010	1176	1238



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	348	356	352	340	342	484	684	1006	1212	1272
115°	358	372	370	368	370	484	684	938	1164	1234
117.5°	352	376	388	386	392	482	676	848	1048	1132
120°	340	370	400	402	412	482	652	794	922	976
122.5°	332	348	396	406	428	480	628	756	854	882
125°	328	334	374	404	434	492	610	736	816	838
127.5°	322	328	356	392	432	494	576	708	772	796
130°	318	326	348	382	422	478	548	650	740	762
132.5°	316	324	346	380	418	466	512	566	634	644
135°	314	322	342	374	410	450	498	534	568	580
137.5°	312	320	336	368	400	426	468	510	540	550
140°	310	316	334	362	392	410	432	456	478	492
142.5°	308	314	328	354	384	402	414	426	434	438
145°	304	310	324	346	374	394	404	412	418	420
147.5°	302	304	316	336	364	384	396	402	406	408
150°	298	300	310	328	352	372	386	396	398	400
152.5°	294	296	304	318	340	360	372	384	390	392
155°	292	292	298	310	328	346	358	368	374	376
157.5°	290	290	294	304	316	330	344	352	358	360
160°	286	286	290	298	306	316	326	336	342	342
162.5°	284	284	286	292	300	306	310	314	318	318
165°	280	282	284	288	294	300	302	304	304	304
167.5°	278	280	282	284	288	292	294	296	296	296
170°	274	276	278	282	282	286	286	288	288	286
172.5°	272	274	276	278	280	280	280	280	278	278
175°	272	272	272	274	274	276	276	274	272	270
177.5°	270	270	270	270	268	270	268	268	266	264
180°	266	266	266	266	266	266	266	266	266	266

(END OF REPORT)