

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: P213054

Luminaire Tested: **DSI-WD-30L830-1D-UNV-4-STD-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35732)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WD-30L830-1D-UNV-4-STD-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC, LIGHT LEVEL 2.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2939.6 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.45 / 1.52
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

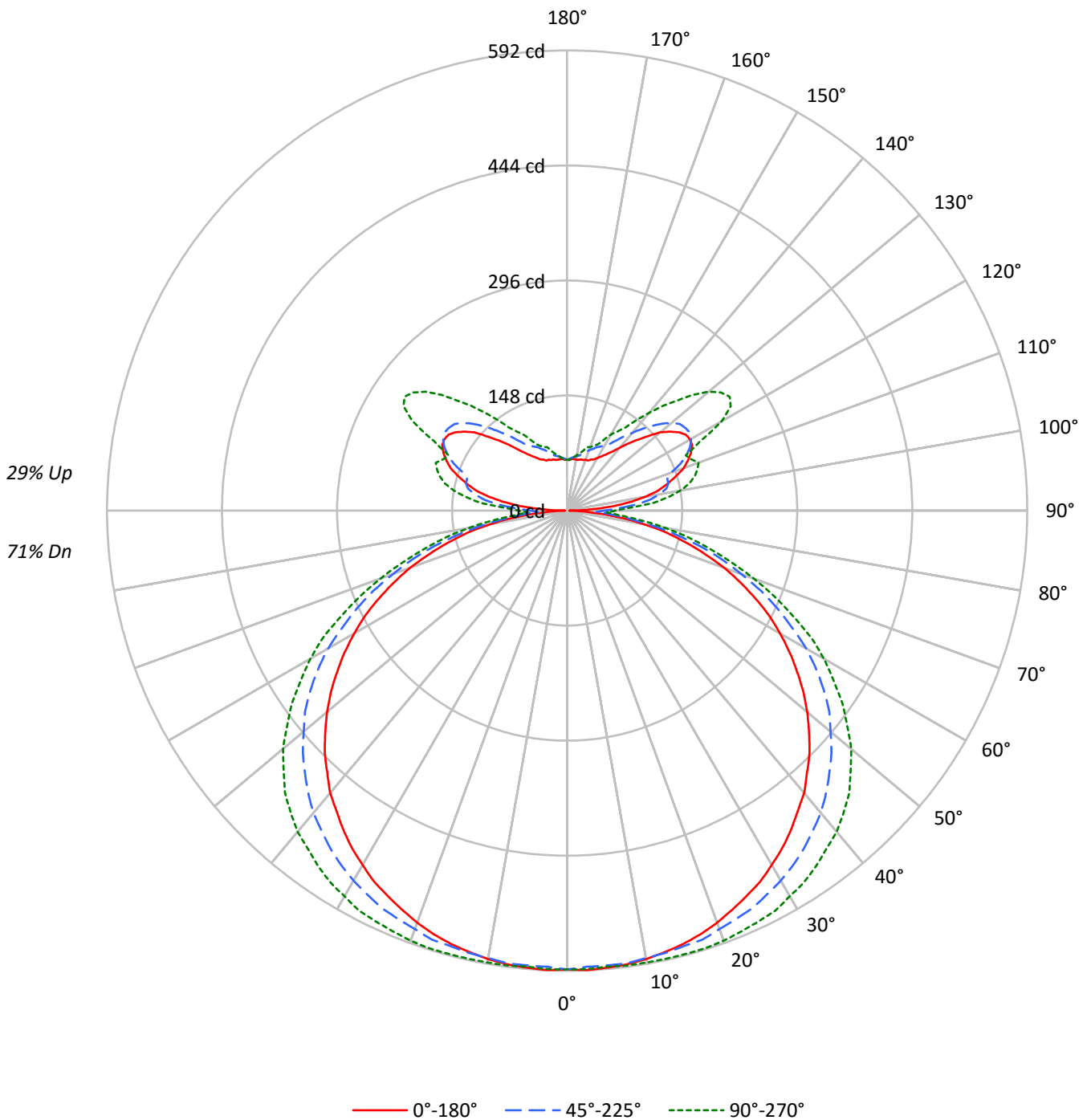
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P213054

CATALOG NUMBER: DSI-WD-30L830-1D-UNV-4-STD-W

Luminous Intensity Polar Plot





TEST NUMBER: P213054

CATALOG NUMBER: DSI-WD-30L830-1D-UNV-4-STD-W

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	101	97	92	88	96	91	88	84	82	79	76	73	71	69	65	63	62	58
2	92	83	77	71	86	79	73	68	71	66	62	63	59	56	56	53	51	47
3	83	73	65	58	78	69	62	56	62	56	51	55	51	47	49	45	42	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	43	39	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28
6	64	51	42	36	60	48	40	34	44	37	32	39	33	29	35	30	27	24
7	59	46	37	31	55	43	36	30	39	33	28	35	30	26	32	27	24	21
8	55	41	33	27	52	39	32	26	36	29	25	32	27	23	29	24	21	19
9	51	38	30	24	48	36	29	23	33	26	22	30	24	20	27	22	19	17
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1989	1989	1989
5°	1997	1987	1992
10°	2005	2000	2020
15°	2014	2024	2059
20°	2023	2054	2111
25°	2033	2098	2168
30°	2049	2139	2229
35°	2064	2183	2297
40°	2086	2233	2373
45°	2101	2274	2447
50°	2114	2319	2502
55°	2121	2369	2539
60°	2131	2394	2570
65°	2128	2382	2555
70°	2115	2344	2515
75°	2058	2303	2474
80°	1942	2167	2476
85°	1403	2188	2579



TEST NUMBER: P213054

CATALOG NUMBER: DSI-WD-30L830-1D-UNV-4-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	1.9
10°-20°	164.9	5.6
20°-30°	260.8	8.9
30°-40°	332.5	11.3
40°-50°	368.4	12.5
50°-60°	357.1	12.1
60°-70°	293.3	10.0
70°-80°	185.4	6.3
80°-90°	67.8	2.3
90°-100°	90.1	3.1
100°-110°	148.4	5.0
110°-120°	172.0	5.9
120°-130°	178.2	6.1
130°-140°	124.9	4.2
140°-150°	71.3	2.4
150°-160°	40.6	1.4
160°-170°	21.5	0.7
170°-180°	6.5	0.2
0°-30°	481.8	16.4
0°-40°	814.3	27.7
0°-60°	1539.8	52.4
0°-90°	2086.3	71.0
90°-120°	410.4	14.0
90°-150°	784.7	26.7
90°-180°	853.0	29.0
0°-180°	2939.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	590	590	587	589	589	56
15°	577	579	580	589	590	163
25°	547	553	564	579	583	252
35°	502	512	531	551	558	314
45°	441	454	477	503	513	340
55°	361	377	403	424	432	323
65°	267	281	299	315	320	264
75°	158	168	177	183	190	167
85°	36	44	57	65	67	44
90°	3	28	48	58	62	6
95°	55	65	88	104	110	54
105°	133	120	135	160	170	140
115°	176	168	170	167	168	173
125°	176	178	186	229	255	156
135°	129	141	154	183	200	101
145°	88	100	110	125	130	57
155°	72	80	90	93	94	34
165°	68	71	75	80	80	19
175°	67	67	68	68	67	6
180°	65	65	65	65	65	



TEST NUMBER: P213054

CATALOG NUMBER: DSI-WD-30L830-1D-UNV-4-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	590.3	590.3	590.3	590.3	590.3
2.5°	591.7	591.7	587.4	590.3	590.3
5°	590.3	590.3	587.4	588.8	588.8
7.5°	588.8	588.8	587.4	590.3	590.3
10°	585.9	585.9	584.5	588.8	590.3
12.5°	581.6	581.6	583.0	588.8	590.3
15°	577.2	578.7	580.1	588.8	590.3
17.5°	571.4	572.9	578.7	587.4	590.3
20°	564.2	567.1	572.9	584.5	588.8
22.5°	555.5	559.8	568.5	581.6	585.9
25°	546.8	552.6	564.2	578.7	583.0
27.5°	538.1	543.9	556.9	574.3	580.1
30°	526.5	533.7	549.7	567.1	572.9
32.5°	514.9	523.6	541.0	559.8	567.1
35°	501.8	512.0	530.8	551.1	558.4
37.5°	487.3	498.9	519.2	541.0	548.2
40°	474.3	484.4	507.6	530.8	539.5
42.5°	456.9	469.9	493.1	516.3	526.5
45°	440.9	454.0	477.2	503.3	513.4
47.5°	422.1	436.6	461.2	487.3	494.6
50°	403.2	417.7	442.4	467.0	477.2
52.5°	382.9	397.4	425.0	446.7	454.0
55°	361.1	377.1	403.2	423.5	432.2
57.5°	339.4	355.3	380.0	398.8	406.1
60°	316.2	330.7	355.3	372.7	381.4
62.5°	293.0	306.0	326.3	345.2	353.9
65°	266.9	281.4	298.8	314.7	320.5
67.5°	240.8	253.8	269.8	282.8	288.6
70°	214.7	226.3	237.9	250.9	255.3
72.5°	185.6	197.2	208.9	216.1	221.9
75°	158.1	168.2	176.9	182.7	190.0
77.5°	130.5	137.8	143.6	155.2	159.5
80°	100.1	105.9	111.7	123.3	127.6
82.5°	68.2	72.5	81.2	91.4	95.7
85°	36.3	43.5	56.6	65.3	66.7
87.5°	14.5	24.7	37.7	46.4	50.8
90°	2.9	27.6	47.9	58.0	62.4
92.5°	24.7	46.4	65.3	75.4	78.3
95°	55.1	65.3	88.5	104.4	110.2
97.5°	79.8	82.7	107.3	124.7	130.5
100°	101.5	92.8	120.4	142.1	147.9
102.5°	120.4	107.3	130.5	152.3	161.0
105°	133.4	120.4	134.9	159.5	169.7
107.5°	146.5	134.9	134.9	165.3	175.5
110°	159.5	147.9	142.1	165.3	179.8



TEST NUMBER: P213054

CATALOG NUMBER: DSI-WD-30L830-1D-UNV-4-STD-W

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.2	159.5	158.1	161.0	172.6
115°	175.5	168.2	169.7	166.8	168.2
117.5°	181.3	175.5	178.4	201.6	192.9
120°	182.7	179.8	184.2	221.9	229.2
122.5°	181.3	181.3	187.1	229.2	249.5
125°	175.5	178.4	185.6	229.2	255.3
127.5°	166.8	171.1	182.7	223.4	249.5
130°	156.6	162.4	175.5	211.8	237.9
132.5°	142.1	152.3	165.3	198.7	220.5
135°	129.1	140.7	153.7	182.7	200.1
137.5°	117.5	129.1	142.1	166.8	182.7
140°	105.9	117.5	130.5	150.8	163.9
142.5°	95.7	108.8	120.4	136.3	146.5
145°	88.5	100.1	110.2	124.7	130.5
147.5°	82.7	92.8	101.5	116.0	120.4
150°	78.3	87.0	97.2	107.3	113.1
152.5°	74.0	82.7	92.8	98.6	103.0
155°	72.5	79.8	89.9	92.8	94.3
157.5°	69.6	76.9	85.6	89.9	89.9
160°	69.6	74.0	82.7	87.0	87.0
162.5°	68.2	72.5	78.3	84.1	85.6
165°	68.2	71.1	75.4	79.8	79.8
167.5°	66.7	69.6	72.5	75.4	75.4
170°	66.7	68.2	71.1	72.5	72.5
172.5°	66.7	68.2	69.6	69.6	69.6
175°	66.7	66.7	68.2	68.2	66.7
177.5°	65.3	66.7	66.7	66.7	65.3
180°	65.3	65.3	65.3	65.3	65.3

(END OF REPORT)