

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: P213013

Luminaire Tested: **DSI-WS-40L830-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35729)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-40L830-1D-UNV-4-STD-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH DUST COVER, LIGHT LEVEL 3.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3757.1 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.49 / 1.57
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

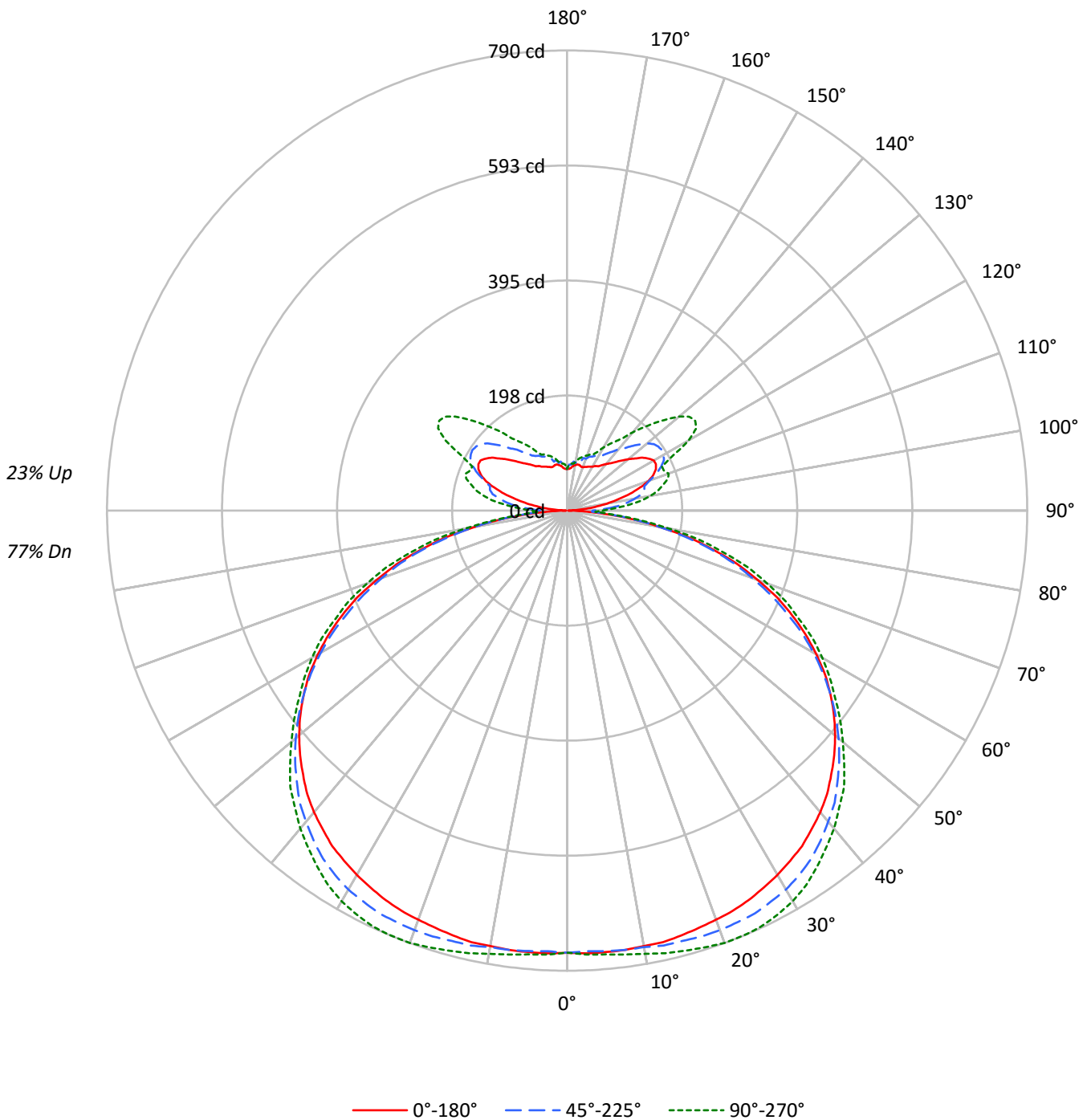
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	103	98	93	89	98	93	89	85	85	81	78	77	74	72	70	68	66	62
2	93	84	77	71	88	80	74	68	73	68	63	66	62	59	60	57	54	50
3	84	73	65	58	79	70	62	56	63	57	52	58	53	48	52	48	45	42
4	76	64	55	48	72	61	53	47	56	49	44	51	45	41	46	42	38	35
5	70	57	48	41	66	54	46	40	50	43	37	45	39	35	41	36	32	30
6	64	51	42	35	61	49	40	34	45	37	32	41	35	30	37	32	28	26
7	59	46	37	31	56	44	36	30	40	33	28	37	31	26	34	29	25	22
8	55	41	33	27	52	40	32	26	37	30	25	34	28	23	31	26	22	20
9	51	38	30	24	49	36	29	23	33	27	22	31	25	21	28	23	20	18
10	48	35	27	22	45	33	26	21	31	24	20	28	23	19	26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2558	2558	2558
5°	2574	2567	2587
10°	2597	2603	2643
15°	2634	2668	2729
20°	2680	2749	2832
25°	2743	2836	2930
30°	2810	2923	3013
35°	2892	3003	3074
40°	2973	3067	3135
45°	3056	3129	3203
50°	3148	3189	3240
55°	3245	3245	3302
60°	3332	3293	3410
65°	3403	3310	3495
70°	3425	3330	3596
75°	3394	3319	3621
80°	3111	3111	3448
85°	2463	2838	2989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.9
10°-20°	217.6	5.8
20°-30°	352.3	9.4
30°-40°	455.5	12.1
40°-50°	506.9	13.5
50°-60°	496.8	13.2
60°-70°	421.8	11.2
70°-80°	276.7	7.4
80°-90°	90.2	2.4
90°-100°	84.1	2.2
100°-110°	145.0	3.9
110°-120°	175.0	4.7
120°-130°	179.5	4.8
130°-140°	126.4	3.4
140°-150°	76.9	2.0
150°-160°	46.4	1.2
160°-170°	25.3	0.7
170°-180°	7.7	0.2
0°-30°	642.8	17.1
0°-40°	1098.2	29.2
0°-60°	2102.0	55.9
0°-90°	2890.6	76.9
90°-120°	404.1	10.8
90°-150°	787.0	20.9
90°-180°	866.0	23.0
0°-180°	3757.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	761	761	759	765	765	73
15°	755	759	765	778	782	214
25°	738	746	763	782	788	341
35°	703	713	730	744	747	440
45°	641	649	657	666	672	495
55°	552	552	552	560	562	493
65°	427	423	415	436	438	421
75°	261	255	255	278	278	273
85°	64	66	73	79	77	73
90°	2	27	44	56	60	6
95°	29	62	87	100	102	32
105°	112	112	137	164	170	117
115°	168	162	178	182	180	164
125°	158	166	191	243	268	141
135°	118	133	156	193	212	93
145°	93	106	120	137	145	60
155°	83	93	102	106	106	39
165°	81	85	87	93	95	23
175°	73	81	79	81	81	7
180°	72	72	72	72	72	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	759.0	759.0	759.0	759.0	759.0
2.5°	760.9	760.9	757.1	760.9	762.9
5°	760.9	760.9	759.0	764.8	764.8
7.5°	760.9	760.9	760.9	766.7	768.7
10°	759.0	760.9	760.9	770.6	772.5
12.5°	759.0	760.9	764.8	774.5	778.3
15°	755.2	759.0	764.8	778.3	782.2
17.5°	751.3	757.1	766.7	782.2	786.1
20°	747.4	755.2	766.7	784.1	789.9
22.5°	743.6	751.3	764.8	784.1	789.9
25°	737.8	745.5	762.9	782.2	788.0
27.5°	730.0	739.7	757.1	776.4	782.2
30°	722.3	733.9	751.3	768.7	774.5
32.5°	712.7	724.2	741.6	759.0	762.9
35°	703.0	712.7	730.0	743.6	747.4
37.5°	689.5	697.2	714.6	728.1	730.0
40°	676.0	683.7	697.2	710.7	712.7
42.5°	660.5	666.3	679.8	689.5	691.4
45°	641.2	648.9	656.7	666.3	672.1
47.5°	621.9	627.7	633.5	643.1	645.1
50°	600.6	604.5	608.4	618.0	618.0
52.5°	577.5	581.3	581.3	589.1	591.0
55°	552.4	552.4	552.4	560.1	562.0
57.5°	525.3	525.3	521.5	531.1	535.0
60°	494.4	494.4	488.6	500.2	506.0
62.5°	461.6	459.7	453.9	467.4	475.1
65°	426.8	423.0	415.2	436.5	438.4
67.5°	390.1	386.3	378.5	399.8	405.6
70°	347.6	347.6	338.0	363.1	365.0
72.5°	307.1	301.3	299.4	320.6	326.4
75°	260.7	254.9	254.9	278.1	278.1
77.5°	214.4	206.7	206.7	227.9	233.7
80°	160.3	158.4	160.3	175.8	177.7
82.5°	113.9	108.2	113.9	123.6	125.5
85°	63.7	65.7	73.4	79.2	77.3
87.5°	25.1	34.8	42.5	46.4	48.3
90°	1.9	27.0	44.4	56.0	59.9
92.5°	11.6	44.4	63.7	75.3	79.2
95°	29.0	61.8	86.9	100.4	102.4
97.5°	48.3	73.4	104.3	121.7	127.5
100°	69.5	85.0	117.8	139.1	144.8
102.5°	90.8	98.5	131.3	152.6	160.3
105°	112.0	112.0	137.1	164.2	170.0
107.5°	131.3	127.5	139.1	171.9	181.5
110°	148.7	141.0	150.6	170.0	185.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.3	152.6	166.1	170.0	179.6
115°	168.0	162.2	177.7	181.5	179.6
117.5°	171.9	168.0	187.3	212.4	204.7
120°	171.9	171.9	191.2	233.7	241.4
122.5°	166.1	171.9	193.1	243.3	262.7
125°	158.4	166.1	191.2	243.3	268.5
127.5°	146.8	158.4	187.3	235.6	264.6
130°	137.1	150.6	179.6	224.0	251.1
132.5°	127.5	142.9	168.0	208.6	231.8
135°	117.8	133.3	156.4	193.1	212.4
137.5°	110.1	125.5	144.8	177.7	193.1
140°	104.3	121.7	137.1	160.3	175.8
142.5°	98.5	113.9	127.5	146.8	156.4
145°	92.7	106.2	119.7	137.1	144.8
147.5°	90.8	104.3	112.0	127.5	135.2
150°	86.9	98.5	108.2	119.7	125.5
152.5°	85.0	94.6	106.2	112.0	113.9
155°	83.0	92.7	102.4	106.2	106.2
157.5°	81.1	92.7	100.4	100.4	104.3
160°	79.2	86.9	94.6	102.4	100.4
162.5°	79.2	85.0	94.6	98.5	98.5
165°	81.1	85.0	86.9	92.7	94.6
167.5°	81.1	85.0	88.8	88.8	90.8
170°	79.2	81.1	83.0	88.8	85.0
172.5°	77.3	81.1	85.0	83.0	81.1
175°	73.4	81.1	79.2	81.1	81.1
177.5°	71.5	73.4	79.2	81.1	79.2
180°	71.5	71.5	71.5	71.5	71.5

(END OF REPORT)