

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: P213040

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35731)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-30L830-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH SOLID COVER, LIGHT LEVEL 2.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2782.5 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.4 / 1.49
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

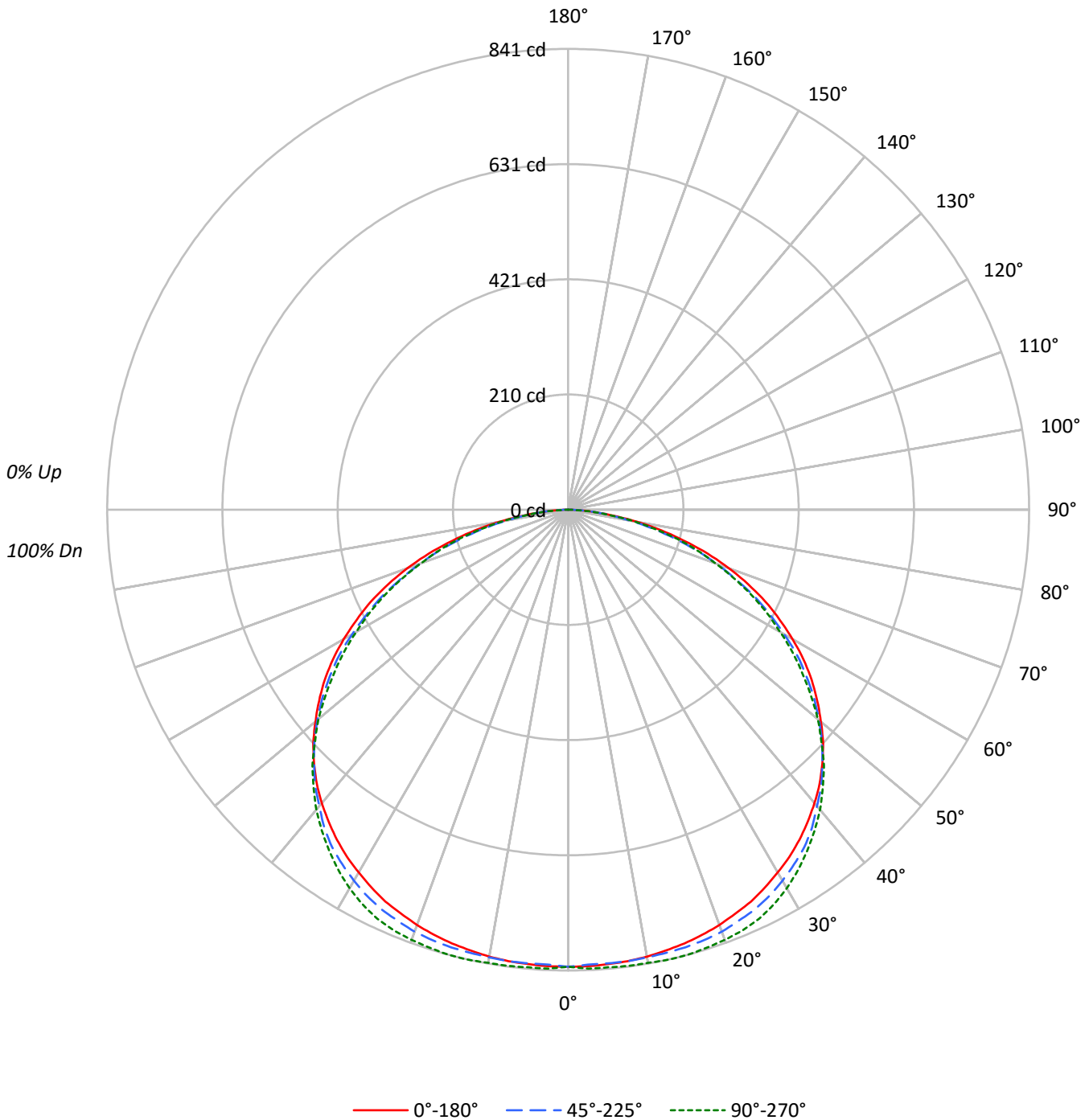
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	76	69	62	73	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	43	38		49	43	38	36
7	64	50	41	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27		38	32	27		37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24		36	29	24		35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2810	2810	2810
5°	2816	2811	2836
10°	2833	2839	2873
15°	2858	2884	2934
20°	2892	2938	2996
25°	2933	2993	3063
30°	2974	3041	3104
35°	3025	3090	3126
40°	3075	3107	3145
45°	3124	3124	3145
50°	3155	3132	3117
55°	3186	3118	3067
60°	3186	3069	3010
65°	3169	2995	2948
70°	3072	2829	2815
75°	2851	2587	2681
80°	2476	2224	2336
85°	1794	1740	1794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	2.9
10°-20°	234.6	8.4
20°-30°	371.8	13.4
30°-40°	468.9	16.9
40°-50°	506.5	18.2
50°-60°	475.1	17.1
60°-70°	374.2	13.4
70°-80°	217.8	7.8
80°-90°	54.1	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	685.9	24.7
0°-40°	1154.9	41.5
0°-60°	2136.5	76.8
0°-90°	2782.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	832	834	831	837	838	79
15°	819	822	827	837	841	232
25°	789	795	805	818	824	364
35°	735	741	751	758	760	460
45°	656	657	656	658	660	505
55°	542	541	531	525	522	484
65°	397	390	376	371	370	391
75°	219	212	199	203	206	232
85°	46	46	45	46	46	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	834.0	834.0	834.0	834.0	834.0
2.5°	834.0	834.0	831.0	835.4	838.3
5°	832.5	834.0	831.0	836.9	838.3
7.5°	831.0	831.0	831.0	836.9	839.8
10°	828.1	829.6	829.6	838.3	839.8
12.5°	823.8	826.7	828.1	836.9	841.2
15°	819.4	822.3	826.7	836.9	841.2
17.5°	813.6	818.0	823.8	835.4	838.3
20°	806.4	810.7	819.4	832.5	835.4
22.5°	797.7	804.9	812.2	825.2	831.0
25°	789.0	794.8	804.9	818.0	823.8
27.5°	777.4	784.6	794.8	806.4	812.2
30°	764.3	773.0	781.7	794.8	797.7
32.5°	751.3	758.5	767.2	777.4	780.3
35°	735.3	741.1	751.3	758.5	760.0
37.5°	717.9	723.7	731.0	736.8	738.2
40°	699.1	703.4	706.3	712.1	715.0
42.5°	678.8	681.7	683.1	686.0	687.5
45°	655.6	657.0	655.6	658.5	659.9
47.5°	630.9	630.9	628.0	628.0	626.6
50°	601.9	601.9	597.5	594.6	594.6
52.5°	572.9	572.9	565.6	561.3	558.4
55°	542.4	541.0	530.8	525.0	522.1
57.5°	509.1	506.2	496.0	487.3	485.9
60°	472.8	468.5	455.4	449.6	446.7
62.5°	435.1	429.3	414.8	410.4	409.0
65°	397.4	390.1	375.6	371.3	369.8
67.5°	355.3	346.6	330.7	327.8	327.8
70°	311.8	301.7	287.2	287.2	285.7
72.5°	266.9	258.2	243.7	246.6	246.6
75°	219.0	211.8	198.7	203.0	205.9
77.5°	174.0	162.4	156.6	161.0	161.0
80°	127.6	120.4	114.6	116.0	120.4
82.5°	82.7	79.8	76.9	78.3	78.3
85°	46.4	46.4	45.0	46.4	46.4
87.5°	20.3	20.3	14.5	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)