

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: P213027

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213027  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35730)  
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-FC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR OPTIC WITH FROSTED COVER, LIGHT LEVEL 3.  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3760.7 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.45 / 1.53  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

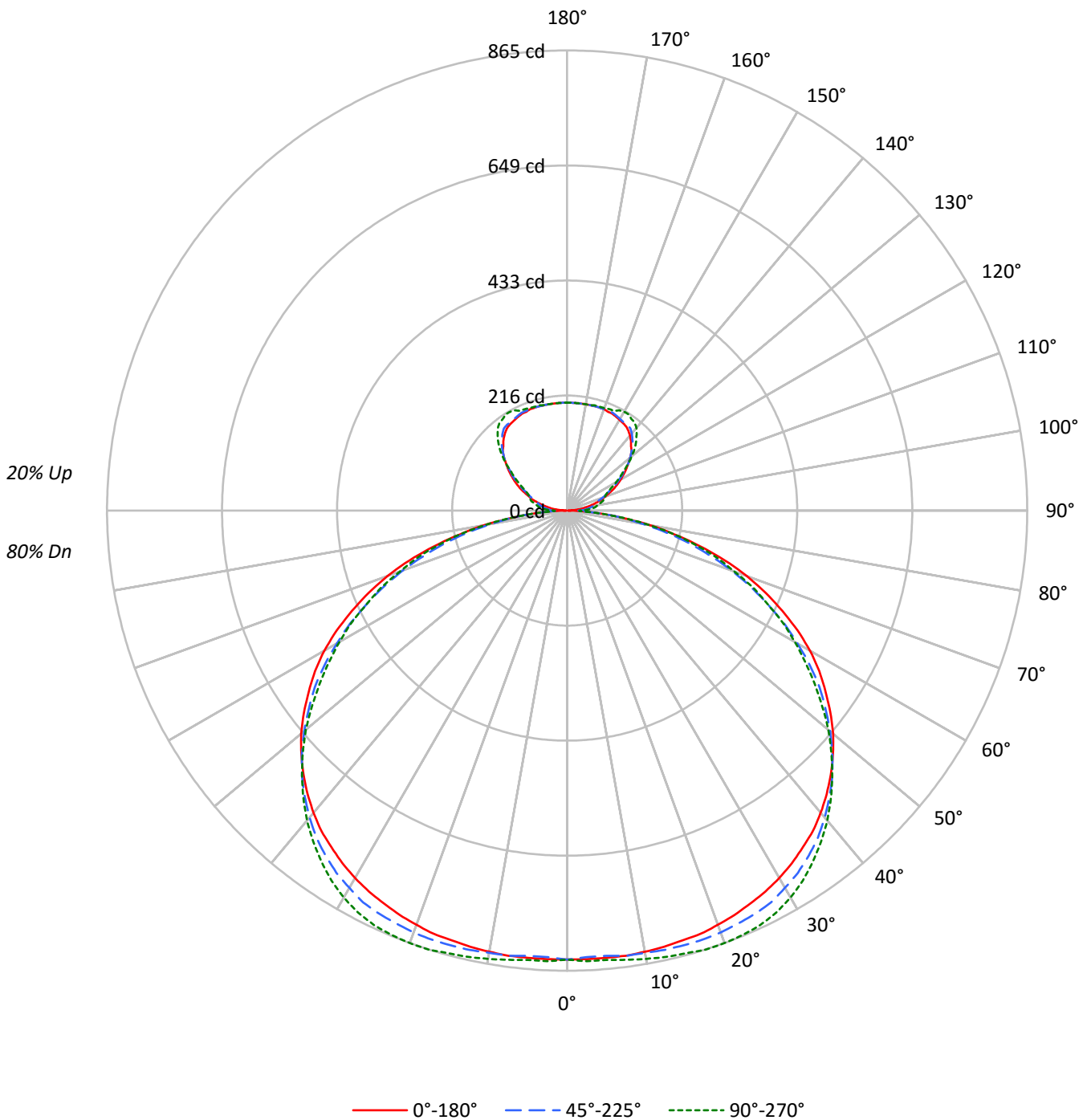
Input Watts (W): 30  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	109	109	109	100	100	100		92	92	92		84	84	84	80
1	104	99	94	90	99	95	91	87	87	84	81		80	77	75		73	71	69	66
2	94	85	78	73	89	82	76	70	75	70	66		69	65	61		63	60	57	54
3	85	74	66	60	81	71	64	58	66	59	54		60	55	51		55	51	48	45
4	78	65	57	50	74	63	55	48	58	51	46		53	48	43		49	44	40	38
5	71	58	49	42	67	56	47	41	51	44	39		47	41	37		44	39	35	32
6	65	52	43	37	62	50	42	36	46	39	34		43	37	32		39	34	30	28
7	60	47	38	32	57	45	37	31	42	35	30		39	33	28		36	31	27	24
8	56	43	34	28	53	41	33	28	38	31	26		35	29	25		33	27	24	21
9	52	39	31	25	50	37	30	25	35	28	23		32	26	22		30	25	21	19
10	49	36	28	23	47	34	27	22	32	26	21		30	24	20		28	23	19	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2844	2844	2844
5°	2855	2842	2868
10°	2881	2888	2927
15°	2917	2951	3005
20°	2971	3026	3102
25°	3030	3109	3195
30°	3103	3186	3269
35°	3178	3257	3313
40°	3262	3313	3347
45°	3341	3359	3359
50°	3422	3382	3361
55°	3483	3404	3336
60°	3554	3371	3332
65°	3557	3310	3310
70°	3539	3234	3292
75°	3369	3093	3269
80°	3074	2810	3035
85°	2389	2389	2239



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.7	2.1
10°-20°	240.4	6.4
20°-30°	386.5	10.3
30°-40°	495.0	13.2
40°-50°	543.3	14.4
50°-60°	518.0	13.8
60°-70°	420.2	11.2
70°-80°	260.4	6.9
80°-90°	75.0	2.0
90°-100°	38.3	1.0
100°-110°	64.2	1.7
110°-120°	90.0	2.4
120°-130°	118.8	3.2
130°-140°	134.6	3.6
140°-150°	124.6	3.3
150°-160°	94.0	2.5
160°-170°	57.6	1.5
170°-180°	19.4	0.5
0°-30°	707.6	18.8
0°-40°	1202.6	32.0
0°-60°	2263.9	60.2
0°-90°	3019.4	80.3
90°-120°	192.4	5.1
90°-150°	570.3	15.2
90°-180°	741.0	19.7
0°-180°	3760.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	844	844	840	848	848	81
15°	836	840	846	858	861	237
25°	815	823	836	854	859	377
35°	772	780	792	802	805	484
45°	701	705	705	707	705	541
55°	593	589	579	572	568	530
65°	446	436	415	417	415	441
75°	259	247	238	249	251	273
85°	62	60	62	62	58	70
90°	2	14	19	23	23	6
95°	17	29	39	46	48	18
105°	56	56	58	68	70	60
115°	97	95	89	85	85	95
125°	135	133	131	131	129	121
135°	170	168	174	182	184	132
145°	193	191	197	207	210	120
155°	201	201	203	205	207	93
165°	203	203	203	205	205	57
175°	203	203	203	203	203	19
180°	203	203	203	203	203	



TEST NUMBER: P213027

CATALOG NUMBER: DSI-WS-40L830-1D-UNV-4-STD-FC-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	844.0	844.0	844.0	844.0	844.0
2.5°	844.0	844.0	840.1	845.9	847.9
5°	844.0	844.0	840.1	847.9	847.9
7.5°	844.0	844.0	844.0	849.8	851.7
10°	842.1	844.0	844.0	853.6	855.6
12.5°	840.1	844.0	845.9	855.6	859.4
15°	836.3	840.1	845.9	857.5	861.4
17.5°	834.3	838.2	845.9	861.4	865.2
20°	828.5	834.3	844.0	859.4	865.2
22.5°	822.7	828.5	840.1	857.5	863.3
25°	815.0	822.7	836.3	853.6	859.4
27.5°	807.3	815.0	830.5	845.9	851.7
30°	797.6	805.4	818.9	834.3	840.1
32.5°	786.1	793.8	807.3	820.8	824.7
35°	772.5	780.3	791.8	801.5	805.4
37.5°	759.0	764.8	774.5	782.2	784.1
40°	741.6	747.4	753.2	759.0	760.9
42.5°	722.3	728.1	730.0	733.9	733.9
45°	701.1	704.9	704.9	706.9	704.9
47.5°	677.9	679.8	676.0	676.0	674.0
50°	652.8	652.8	645.1	643.1	641.2
52.5°	623.8	621.9	612.2	608.4	604.5
55°	592.9	589.1	579.4	571.7	567.8
57.5°	562.0	556.2	540.8	533.0	531.1
60°	527.3	519.5	500.2	494.4	494.4
62.5°	488.6	479.0	459.7	455.8	457.7
65°	446.1	436.5	415.2	417.2	415.2
67.5°	403.6	392.1	372.7	376.6	378.5
70°	359.2	347.6	328.3	334.1	334.1
72.5°	310.9	297.4	282.0	293.6	295.5
75°	258.8	247.2	237.6	249.1	251.1
77.5°	206.7	198.9	191.2	204.7	206.7
80°	158.4	148.7	144.8	156.4	156.4
82.5°	104.3	102.4	104.3	110.1	108.2
85°	61.8	59.9	61.8	61.8	57.9
87.5°	27.0	27.0	25.1	21.2	23.2
90°	1.9	13.5	19.3	23.2	23.2
92.5°	9.7	23.2	32.8	36.7	36.7
95°	17.4	29.0	38.6	46.4	48.3
97.5°	27.0	32.8	44.4	52.1	54.1
100°	36.7	36.7	50.2	56.0	57.9
102.5°	46.4	46.4	54.1	61.8	63.7
105°	56.0	56.0	57.9	67.6	69.5
107.5°	67.6	65.7	61.8	69.5	73.4
110°	75.3	75.3	71.5	73.4	75.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	85.0	85.0	79.2	77.3	79.2
115°	96.6	94.6	88.8	85.0	85.0
117.5°	106.2	104.3	100.4	96.6	94.6
120°	115.9	113.9	110.1	108.2	106.2
122.5°	125.5	125.5	121.7	119.7	117.8
125°	135.2	133.3	131.3	131.3	129.4
127.5°	144.8	142.9	144.8	144.8	144.8
130°	154.5	150.6	154.5	156.4	158.4
132.5°	164.2	160.3	164.2	170.0	171.9
135°	170.0	168.0	173.8	181.5	183.5
137.5°	177.7	175.8	181.5	191.2	193.1
140°	183.5	183.5	189.3	198.9	202.8
142.5°	189.3	187.3	195.1	202.8	208.6
145°	193.1	191.2	197.0	206.7	210.5
147.5°	195.1	195.1	197.0	210.5	214.4
150°	197.0	197.0	198.9	210.5	214.4
152.5°	198.9	198.9	200.9	206.7	212.4
155°	200.9	200.9	202.8	204.7	206.7
157.5°	200.9	200.9	202.8	204.7	206.7
160°	202.8	202.8	202.8	204.7	204.7
162.5°	202.8	202.8	202.8	204.7	204.7
165°	202.8	202.8	202.8	204.7	204.7
167.5°	202.8	202.8	202.8	202.8	202.8
170°	202.8	202.8	202.8	202.8	202.8
172.5°	202.8	202.8	202.8	202.8	202.8
175°	202.8	202.8	202.8	202.8	202.8
177.5°	202.8	202.8	202.8	202.8	202.8
180°	202.8	202.8	202.8	202.8	202.8

(END OF REPORT)