

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: P213032

Luminaire Tested: **DSI-WS-40L835-1D-UNV-4-STD-FC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213032
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-40L835-1D-UNV-4-STD-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH FROSTED COVER, LIGHT LEVEL 3.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3939.0 lumens
Efficiency: N/A
Efficacy: 131.3 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

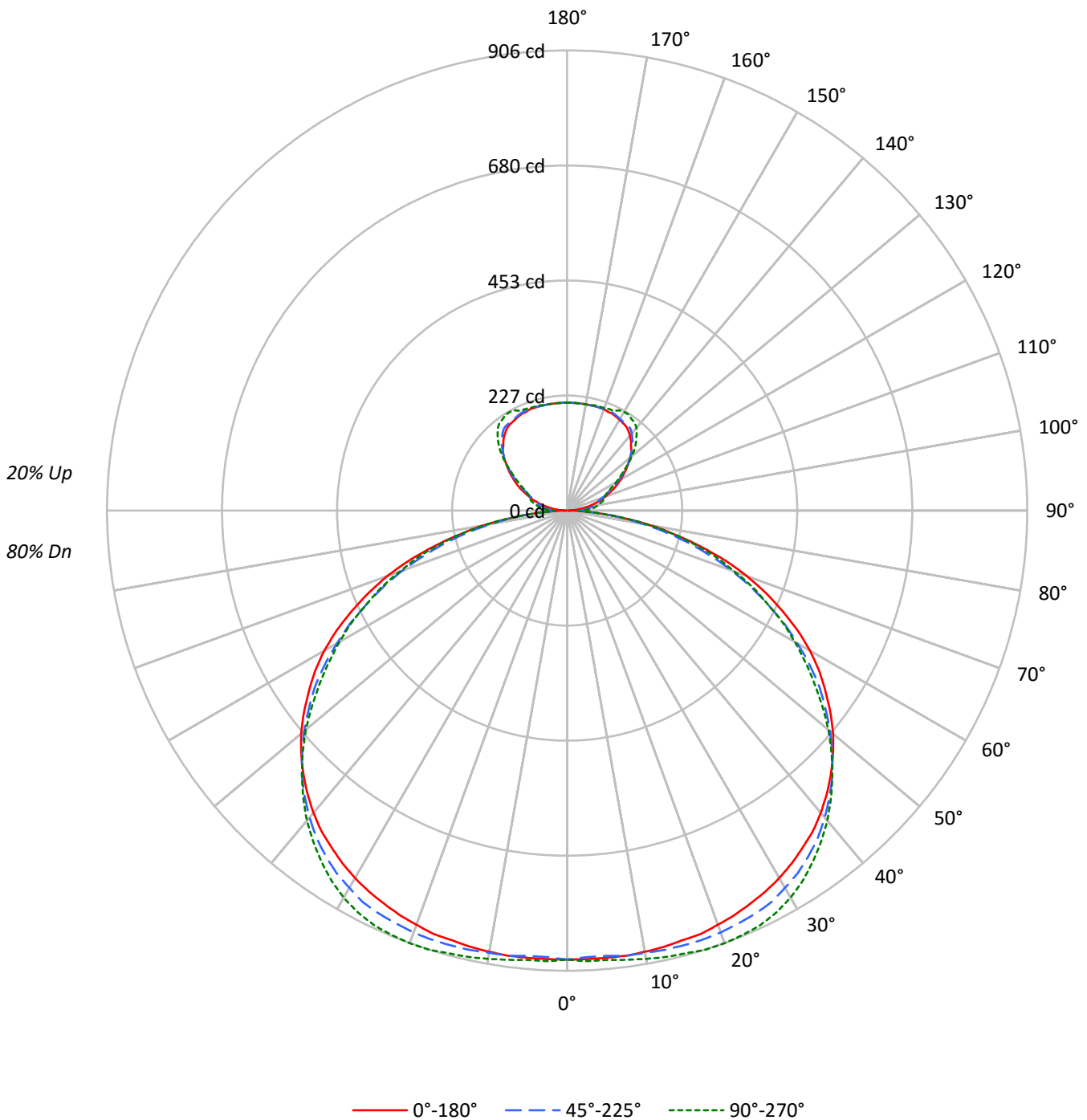
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2979	2979	2979
5°	2990	2977	3004
10°	3018	3025	3066
15°	3056	3091	3147
20°	3112	3170	3250
25°	3174	3257	3347
30°	3251	3337	3424
35°	3329	3412	3470
40°	3417	3470	3506
45°	3499	3519	3519
50°	3584	3542	3521
55°	3648	3565	3494
60°	3721	3531	3490
65°	3726	3467	3467
70°	3707	3388	3448
75°	3529	3239	3424
80°	3219	2944	3180
85°	2501	2501	2347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	2.1
10°-20°	251.8	6.4
20°-30°	404.8	10.3
30°-40°	518.4	13.2
40°-50°	569.0	14.4
50°-60°	542.6	13.8
60°-70°	440.1	11.2
70°-80°	272.7	6.9
80°-90°	78.6	2.0
90°-100°	40.1	1.0
100°-110°	67.2	1.7
110°-120°	94.2	2.4
120°-130°	124.4	3.2
130°-140°	140.9	3.6
140°-150°	130.5	3.3
150°-160°	98.5	2.5
160°-170°	60.4	1.5
170°-180°	20.3	0.5
0°-30°	741.2	18.8
0°-40°	1259.6	32.0
0°-60°	2371.2	60.2
0°-90°	3162.6	80.3
90°-120°	201.5	5.1
90°-150°	597.3	15.2
90°-180°	776.0	19.7
0°-180°	3939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	884	884	880	888	888	84
15°	876	880	886	898	902	248
25°	854	862	876	894	900	394
35°	809	817	829	840	844	507
45°	734	738	738	740	738	567
55°	621	617	607	599	595	555
65°	467	457	435	437	435	462
75°	271	259	249	261	263	286
85°	65	63	65	65	61	74
90°	2	14	20	24	24	6
95°	18	30	40	48	51	19
105°	59	59	61	71	73	62
115°	101	99	93	89	89	99
125°	142	140	138	138	136	127
135°	178	176	182	190	192	138
145°	202	200	206	216	220	126
155°	210	210	212	214	216	97
165°	212	212	212	214	214	60
175°	212	212	212	212	212	20
180°	212	212	212	212	212	



TEST NUMBER: P213032

CATALOG NUMBER: DSI-WS-40L835-1D-UNV-4-STD-FC-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	884.0	884.0	884.0	884.0	884.0
2.5°	884.0	884.0	880.0	886.0	888.0
5°	884.0	884.0	880.0	888.0	888.0
7.5°	884.0	884.0	884.0	890.1	892.1
10°	882.0	884.0	884.0	894.1	896.1
12.5°	880.0	884.0	886.0	896.1	900.2
15°	875.9	880.0	886.0	898.2	902.2
17.5°	873.9	877.9	886.0	902.2	906.3
20°	867.8	873.9	884.0	900.2	906.3
22.5°	861.8	867.8	880.0	898.2	904.2
25°	853.7	861.8	875.9	894.1	900.2
27.5°	845.6	853.7	869.8	886.0	892.1
30°	835.5	843.5	857.7	873.9	880.0
32.5°	823.3	831.4	845.6	859.7	863.8
35°	809.2	817.2	829.4	839.5	843.5
37.5°	795.0	801.1	811.2	819.3	821.3
40°	776.8	782.9	788.9	795.0	797.0
42.5°	756.6	762.6	764.7	768.7	768.7
45°	734.3	738.4	738.4	740.4	738.4
47.5°	710.0	712.1	708.0	708.0	706.0
50°	683.7	683.7	675.6	673.6	671.6
52.5°	653.4	651.4	641.3	637.2	633.2
55°	621.0	617.0	606.9	598.8	594.7
57.5°	588.7	582.6	566.4	558.3	556.3
60°	552.2	544.2	523.9	517.9	517.9
62.5°	511.8	501.7	481.4	477.4	479.4
65°	467.3	457.2	434.9	436.9	434.9
67.5°	422.8	410.6	390.4	394.5	396.5
70°	376.3	364.1	343.9	350.0	350.0
72.5°	325.7	311.5	295.3	307.5	309.5
75°	271.1	258.9	248.8	261.0	263.0
77.5°	216.4	208.4	200.3	214.4	216.4
80°	165.9	155.8	151.7	163.9	163.9
82.5°	109.2	107.2	109.2	115.3	113.3
85°	64.7	62.7	64.7	64.7	60.7
87.5°	28.3	28.3	26.3	22.3	24.3
90°	2.0	14.2	20.2	24.3	24.3
92.5°	10.1	24.3	34.4	38.4	38.4
95°	18.2	30.3	40.5	48.5	50.6
97.5°	28.3	34.4	46.5	54.6	56.6
100°	38.4	38.4	52.6	58.7	60.7
102.5°	48.5	48.5	56.6	64.7	66.8
105°	58.7	58.7	60.7	70.8	72.8
107.5°	70.8	68.8	64.7	72.8	76.9
110°	78.9	78.9	74.8	76.9	78.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	89.0	89.0	82.9	80.9	82.9
115°	101.1	99.1	93.1	89.0	89.0
117.5°	111.3	109.2	105.2	101.1	99.1
120°	121.4	119.4	115.3	113.3	111.3
122.5°	131.5	131.5	127.4	125.4	123.4
125°	141.6	139.6	137.6	137.6	135.5
127.5°	151.7	149.7	151.7	151.7	151.7
130°	161.8	157.8	161.8	163.9	165.9
132.5°	171.9	167.9	171.9	178.0	180.0
135°	178.0	176.0	182.1	190.2	192.2
137.5°	186.1	184.1	190.2	200.3	202.3
140°	192.2	192.2	198.2	208.4	212.4
142.5°	198.2	196.2	204.3	212.4	218.5
145°	202.3	200.3	206.3	216.4	220.5
147.5°	204.3	204.3	206.3	220.5	224.5
150°	206.3	206.3	208.4	220.5	224.5
152.5°	208.4	208.4	210.4	216.4	222.5
155°	210.4	210.4	212.4	214.4	216.4
157.5°	210.4	210.4	212.4	214.4	216.4
160°	212.4	212.4	212.4	214.4	214.4
162.5°	212.4	212.4	212.4	214.4	214.4
165°	212.4	212.4	212.4	214.4	214.4
167.5°	212.4	212.4	212.4	212.4	212.4
170°	212.4	212.4	212.4	212.4	212.4
172.5°	212.4	212.4	212.4	212.4	212.4
175°	212.4	212.4	212.4	212.4	212.4
177.5°	212.4	212.4	212.4	212.4	212.4
180°	212.4	212.4	212.4	212.4	212.4

(END OF REPORT)