

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: P213046

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213046  
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-40L835-1D-UNV-4-STD-SC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR OPTIC WITH SOLID COVER, LIGHT LEVEL 3.  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3880.9 lumens  
Efficiency: N/A  
Efficacy: 129.4 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

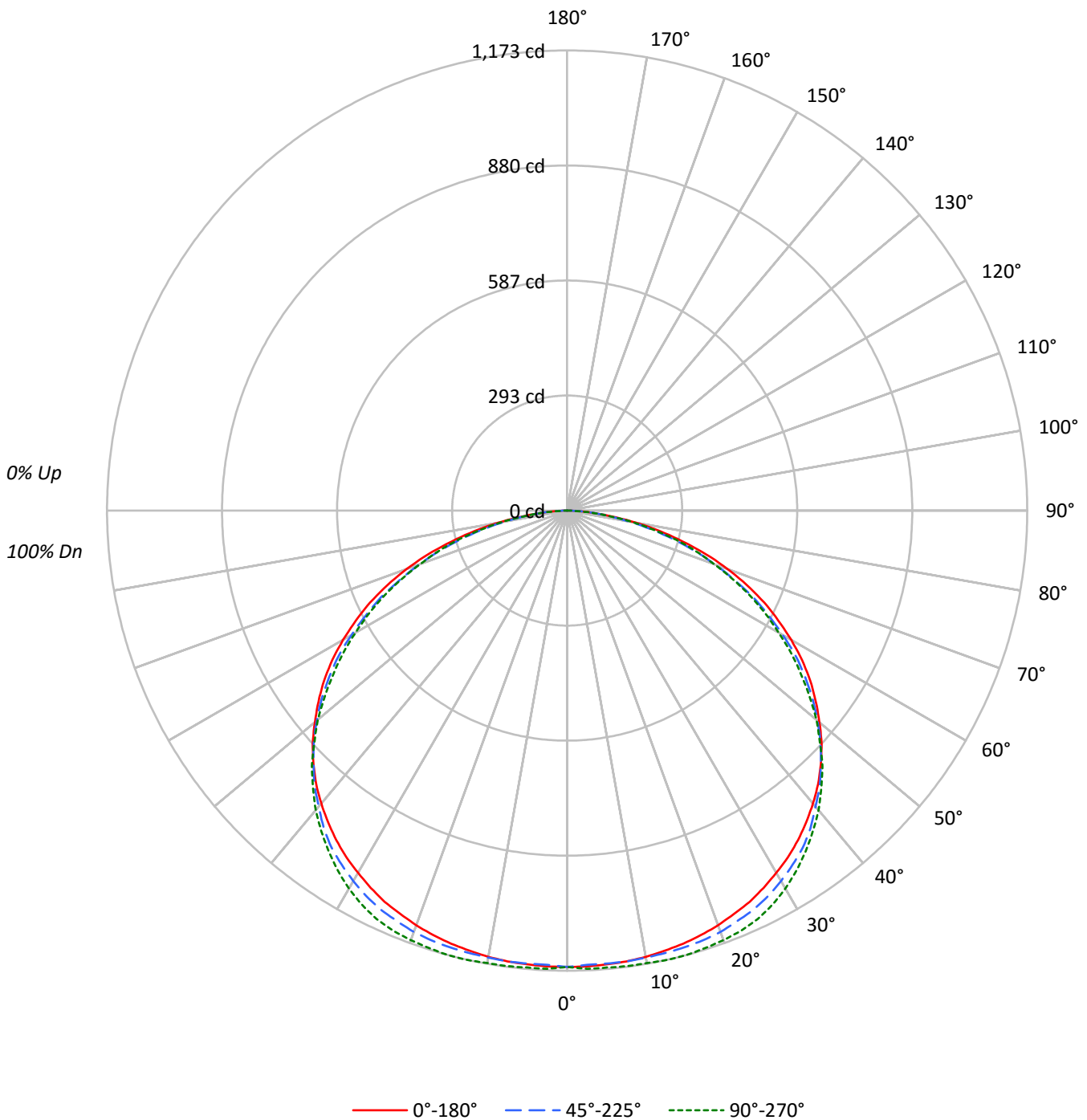
Input Watts (W): 30  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3919	3919	3919
5°	3927	3921	3955
10°	3952	3959	4008
15°	3987	4022	4093
20°	4033	4098	4178
25°	4091	4174	4272
30°	4148	4242	4329
35°	4219	4311	4360
40°	4289	4333	4387
45°	4357	4357	4386
50°	4401	4369	4348
55°	4445	4350	4278
60°	4444	4281	4198
65°	4419	4177	4113
70°	4285	3946	3926
75°	3977	3608	3739
80°	3454	3101	3258
85°	2501	2424	2501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.0	2.9
10°-20°	327.2	8.4
20°-30°	518.5	13.4
30°-40°	654.0	16.9
40°-50°	706.5	18.2
50°-60°	662.7	17.1
60°-70°	521.9	13.4
70°-80°	303.7	7.8
80°-90°	75.4	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°	956.7	24.7
0°-40°	1610.8	41.5
0°-60°	2979.9	76.8
0°-90°	3880.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3880.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1161	1163	1159	1167	1169	111
15°	1143	1147	1153	1167	1173	323
25°	1100	1108	1123	1141	1149	508
35°	1026	1034	1048	1058	1060	642
45°	914	916	914	918	920	705
55°	757	754	740	732	728	675
65°	554	544	524	518	516	546
75°	306	295	277	283	287	323
85°	65	65	63	65	65	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1163.2	1163.2	1163.2	1163.2	1163.2
2.5°	1163.2	1163.2	1159.1	1165.2	1169.2
5°	1161.1	1163.2	1159.1	1167.2	1169.2
7.5°	1159.1	1159.1	1159.1	1167.2	1171.3
10°	1155.1	1157.1	1157.1	1169.2	1171.3
12.5°	1149.0	1153.0	1155.1	1167.2	1173.3
15°	1142.9	1147.0	1153.0	1167.2	1173.3
17.5°	1134.8	1140.9	1149.0	1165.2	1169.2
20°	1124.7	1130.8	1142.9	1161.1	1165.2
22.5°	1112.6	1122.7	1132.8	1151.0	1159.1
25°	1100.4	1108.5	1122.7	1140.9	1149.0
27.5°	1084.3	1094.4	1108.5	1124.7	1132.8
30°	1066.1	1078.2	1090.3	1108.5	1112.6
32.5°	1047.9	1058.0	1070.1	1084.3	1088.3
35°	1025.6	1033.7	1047.9	1058.0	1060.0
37.5°	1001.3	1009.4	1019.5	1027.6	1029.6
40°	975.0	981.1	985.1	993.2	997.3
42.5°	946.7	950.8	952.8	956.8	958.8
45°	914.3	916.4	914.3	918.4	920.4
47.5°	880.0	880.0	875.9	875.9	873.9
50°	839.5	839.5	833.4	829.4	829.4
52.5°	799.0	799.0	788.9	782.9	778.8
55°	756.6	754.5	740.4	732.3	728.2
57.5°	710.0	706.0	691.8	679.7	677.7
60°	659.5	653.4	635.2	627.1	623.0
62.5°	606.9	598.8	578.5	572.5	570.5
65°	554.3	544.2	523.9	517.9	515.8
67.5°	495.6	483.5	461.2	457.2	457.2
70°	434.9	420.8	400.5	400.5	398.5
72.5°	372.2	360.1	339.8	343.9	343.9
75°	305.5	295.3	277.1	283.2	287.2
77.5°	242.7	226.6	218.5	224.5	224.5
80°	178.0	167.9	159.8	161.8	167.9
82.5°	115.3	111.3	107.2	109.2	109.2
85°	64.7	64.7	62.7	64.7	64.7
87.5°	28.3	28.3	20.2	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)