

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: P213018

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213018  
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-40L835-1D-UNV-4-STD-DC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR OPTIC WITH DUST COVER, LIGHT LEVEL 3.  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3935.2 lumens  
Efficiency: N/A  
Efficacy: 131.2 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

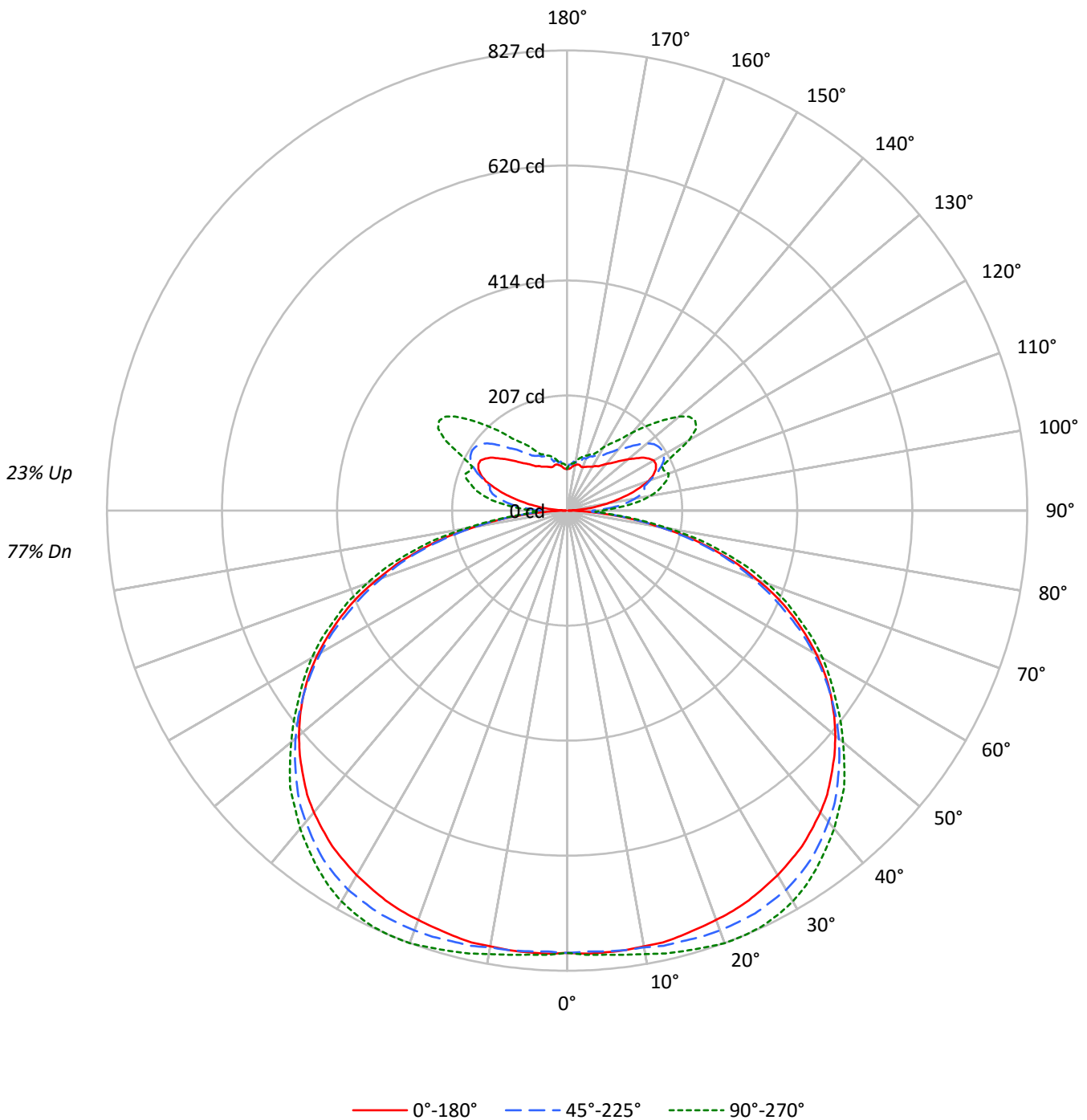
Input Watts (W): 30  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81
1	103	98	93	89	98	93	89	85	85	81	78	77	74	72	70	68	66
2	93	84	77	71	88	80	74	68	73	68	63	66	62	59	60	57	54
3	84	73	65	58	79	70	62	56	63	57	52	58	53	48	52	48	45
4	76	64	55	48	72	61	53	47	56	49	44	51	45	41	46	42	38
5	70	57	48	41	66	54	46	40	50	43	37	45	39	35	41	36	32
6	64	51	42	35	61	49	40	34	45	37	32	41	35	30	37	32	28
7	59	46	37	31	56	44	36	30	40	33	28	37	31	26	34	29	25
8	55	41	33	27	52	40	32	26	37	30	25	34	28	23	31	26	22
9	51	38	30	24	49	36	29	23	33	27	22	31	25	21	28	23	20
10	48	35	27	22	45	33	26	21	31	24	20	28	23	19	26	21	18

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

	0°	45°	90°
0°	2679	2679	2679
5°	2696	2689	2710
10°	2720	2727	2769
15°	2759	2795	2858
20°	2807	2880	2967
25°	2873	2971	3068
30°	2944	3062	3156
35°	3029	3146	3220
40°	3114	3212	3283
45°	3200	3278	3355
50°	3298	3340	3393
55°	3398	3398	3458
60°	3490	3449	3572
65°	3565	3467	3661
70°	3587	3488	3766
75°	3555	3476	3792
80°	3258	3258	3611
85°	2583	2973	3128



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.3	1.9
10°-20°	227.9	5.8
20°-30°	369.0	9.4
30°-40°	477.1	12.1
40°-50°	530.9	13.5
50°-60°	520.4	13.2
60°-70°	441.8	11.2
70°-80°	289.7	7.4
80°-90°	94.5	2.4
90°-100°	88.1	2.2
100°-110°	151.9	3.9
110°-120°	183.3	4.7
120°-130°	188.1	4.8
130°-140°	132.4	3.4
140°-150°	80.6	2.0
150°-160°	48.6	1.2
160°-170°	26.5	0.7
170°-180°	8.1	0.2
0°-30°	673.3	17.1
0°-40°	1150.3	29.2
0°-60°	2201.6	55.9
0°-90°	3027.6	76.9
90°-120°	423.3	10.8
90°-150°	824.3	20.9
90°-180°	908.0	23.1
0°-180°	3935.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	797	797	795	801	801	76
15°	791	795	801	815	819	224
25°	773	781	799	819	825	357
35°	736	746	765	779	783	461
45°	672	680	688	698	704	519
55°	578	578	578	587	589	516
65°	447	443	435	457	459	441
75°	273	267	267	291	291	286
85°	67	69	77	83	81	77
90°	2	28	46	59	63	6
95°	30	65	91	105	107	34
105°	117	117	144	172	178	122
115°	176	170	186	190	188	172
125°	166	174	200	255	281	147
135°	123	140	164	202	222	97
145°	97	111	125	144	152	62
155°	87	97	107	111	111	40
165°	85	89	91	97	99	24
175°	77	85	83	85	85	8
180°	75	75	75	75	75	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	795.0	795.0	795.0	795.0	795.0
2.5°	797.0	797.0	793.0	797.0	799.0
5°	797.0	797.0	795.0	801.1	801.1
7.5°	797.0	797.0	797.0	803.1	805.1
10°	795.0	797.0	797.0	807.1	809.2
12.5°	795.0	797.0	801.1	811.2	815.2
15°	791.0	795.0	801.1	815.2	819.3
17.5°	786.9	793.0	803.1	819.3	823.3
20°	782.9	791.0	803.1	821.3	827.4
22.5°	778.8	786.9	801.1	821.3	827.4
25°	772.7	780.8	799.0	819.3	825.3
27.5°	764.7	774.8	793.0	813.2	819.3
30°	756.6	768.7	786.9	805.1	811.2
32.5°	746.4	758.6	776.8	795.0	799.0
35°	736.3	746.4	764.7	778.8	782.9
37.5°	722.2	730.3	748.5	762.6	764.7
40°	708.0	716.1	730.3	744.4	746.4
42.5°	691.8	697.9	712.1	722.2	724.2
45°	671.6	679.7	687.8	697.9	704.0
47.5°	651.4	657.4	663.5	673.6	675.6
50°	629.1	633.2	637.2	647.3	647.3
52.5°	604.8	608.9	608.9	617.0	619.0
55°	578.5	578.5	578.5	586.6	588.7
57.5°	550.2	550.2	546.2	556.3	560.3
60°	517.9	517.9	511.8	523.9	530.0
62.5°	483.5	481.4	475.4	489.5	497.6
65°	447.1	443.0	434.9	457.2	459.2
67.5°	408.6	404.6	396.5	418.7	424.8
70°	364.1	364.1	354.0	380.3	382.3
72.5°	321.6	315.6	313.5	335.8	341.9
75°	273.1	267.0	267.0	291.3	291.3
77.5°	224.5	216.4	216.4	238.7	244.8
80°	167.9	165.9	167.9	184.1	186.1
82.5°	119.4	113.3	119.4	129.5	131.5
85°	66.8	68.8	76.9	82.9	80.9
87.5°	26.3	36.4	44.5	48.5	50.6
90°	2.0	28.3	46.5	58.7	62.7
92.5°	12.1	46.5	66.8	78.9	82.9
95°	30.3	64.7	91.0	105.2	107.2
97.5°	50.6	76.9	109.2	127.4	133.5
100°	72.8	89.0	123.4	145.6	151.7
102.5°	95.1	103.2	137.6	159.8	167.9
105°	117.3	117.3	143.6	171.9	178.0
107.5°	137.6	133.5	145.6	180.0	190.2
110°	155.8	147.7	157.8	178.0	194.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	167.9	159.8	174.0	178.0	188.1
115°	176.0	169.9	186.1	190.2	188.1
117.5°	180.0	176.0	196.2	222.5	214.4
120°	180.0	180.0	200.3	244.8	252.9
122.5°	174.0	180.0	202.3	254.9	275.1
125°	165.9	174.0	200.3	254.9	281.2
127.5°	153.7	165.9	196.2	246.8	277.1
130°	143.6	157.8	188.1	234.7	263.0
132.5°	133.5	149.7	176.0	218.5	242.7
135°	123.4	139.6	163.9	202.3	222.5
137.5°	115.3	131.5	151.7	186.1	202.3
140°	109.2	127.4	143.6	167.9	184.1
142.5°	103.2	119.4	133.5	153.7	163.9
145°	97.1	111.3	125.4	143.6	151.7
147.5°	95.1	109.2	117.3	133.5	141.6
150°	91.0	103.2	113.3	125.4	131.5
152.5°	89.0	99.1	111.3	117.3	119.4
155°	87.0	97.1	107.2	111.3	111.3
157.5°	85.0	97.1	105.2	105.2	109.2
160°	82.9	91.0	99.1	107.2	105.2
162.5°	82.9	89.0	99.1	103.2	103.2
165°	85.0	89.0	91.0	97.1	99.1
167.5°	85.0	89.0	93.1	93.1	95.1
170°	82.9	85.0	87.0	93.1	89.0
172.5°	80.9	85.0	89.0	87.0	85.0
175°	76.9	85.0	82.9	85.0	85.0
177.5°	74.8	76.9	82.9	85.0	82.9
180°	74.8	74.8	74.8	74.8	74.8

(END OF REPORT)