

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: P213023

Luminaire Tested: **DSI-WS-40L840-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213023
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-40L840-1D-UNV-4-STD-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH DUST COVER, LIGHT LEVEL 3.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3982.5 lumens
Efficiency: N/A
Efficacy: 132.7 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

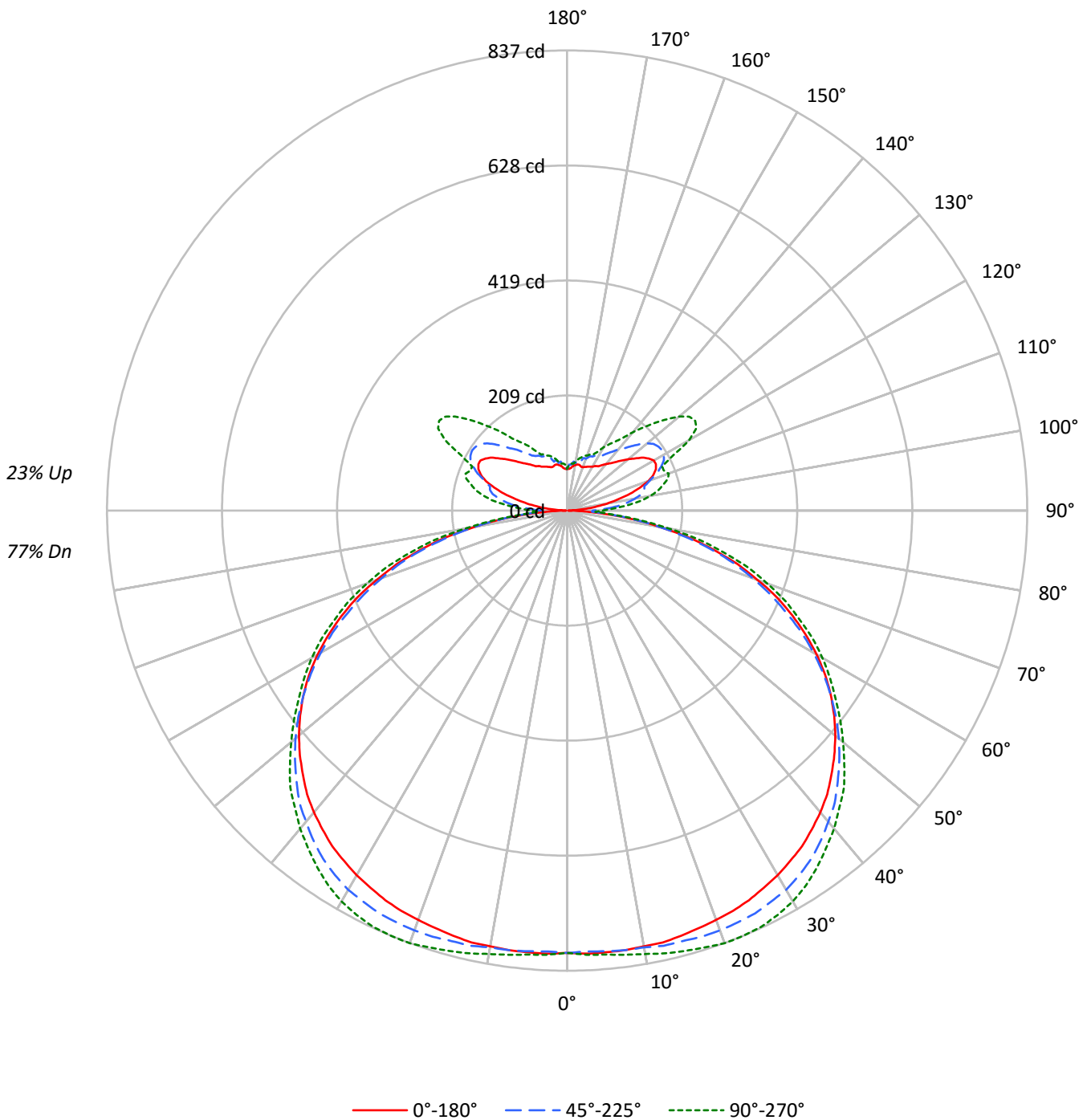
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P213023

CATALOG NUMBER: DSI-WS-40L840-1D-UNV-4-STD-DC-W

Luminous Intensity Polar Plot





TEST NUMBER: P213023

CATALOG NUMBER: DSI-WS-40L840-1D-UNV-4-STD-DC-W

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	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	103	98	93	89	98	93	89	85	85	81	78	77	74	72	70	68	66	62
2	93	84	77	71	88	80	74	68	73	68	63	66	62	59	60	57	54	50
3	84	73	65	58	79	70	62	56	63	57	52	58	53	48	52	48	45	42
4	76	64	55	48	72	61	53	47	56	49	44	51	45	41	46	42	38	35
5	70	57	48	41	66	54	46	40	50	43	37	45	39	35	41	36	32	30
6	64	51	42	35	61	49	40	34	45	37	32	41	35	30	37	32	28	26
7	59	46	37	31	56	44	36	30	40	33	28	37	31	26	34	29	25	22
8	55	41	33	27	52	40	32	26	37	30	25	34	28	23	31	26	22	20
9	51	38	30	24	49	36	29	23	33	27	22	31	25	21	28	23	20	18
10	48	35	27	22	45	33	26	21	31	24	20	28	23	19	26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2711	2711	2711
5°	2728	2722	2742
10°	2753	2760	2802
15°	2792	2828	2892
20°	2841	2914	3002
25°	2907	3006	3106
30°	2979	3099	3194
35°	3065	3183	3259
40°	3152	3251	3323
45°	3239	3317	3395
50°	3338	3381	3434
55°	3440	3440	3500
60°	3532	3490	3615
65°	3607	3510	3705
70°	3630	3530	3812
75°	3598	3518	3838
80°	3297	3297	3654
85°	2614	3008	3166



TEST NUMBER: P213023

CATALOG NUMBER: DSI-WS-40L840-1D-UNV-4-STD-DC-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.9
10°-20°	230.7	5.8
20°-30°	373.5	9.4
30°-40°	482.8	12.1
40°-50°	537.3	13.5
50°-60°	526.6	13.2
60°-70°	447.1	11.2
70°-80°	293.2	7.4
80°-90°	95.6	2.4
90°-100°	89.1	2.2
100°-110°	153.7	3.9
110°-120°	185.5	4.7
120°-130°	190.3	4.8
130°-140°	134.0	3.4
140°-150°	81.6	2.0
150°-160°	49.2	1.2
160°-170°	26.9	0.7
170°-180°	8.2	0.2
0°-30°	681.3	17.1
0°-40°	1164.1	29.2
0°-60°	2228.1	55.9
0°-90°	3064.0	76.9
90°-120°	428.4	10.8
90°-150°	834.2	20.9
90°-180°	918.0	23.1
0°-180°	3982.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	807	807	805	811	811	77
15°	800	805	811	825	829	227
25°	782	790	809	829	835	361
35°	745	755	774	788	792	466
45°	680	688	696	706	712	525
55°	586	586	586	594	596	523
65°	452	448	440	463	465	446
75°	276	270	270	295	295	290
85°	68	70	78	84	82	78
90°	2	29	47	59	64	6
95°	31	66	92	106	108	34
105°	119	119	145	174	180	124
115°	178	172	188	192	190	174
125°	168	176	203	258	285	149
135°	125	141	166	205	225	98
145°	98	113	127	145	154	63
155°	88	98	108	113	113	41
165°	86	90	92	98	100	24
175°	78	86	84	86	86	8
180°	76	76	76	76	76	



TEST NUMBER: P213023

CATALOG NUMBER: DSI-WS-40L840-1D-UNV-4-STD-DC-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.6	804.6	804.6	804.6	804.6
2.5°	806.6	806.6	802.5	806.6	808.6
5°	806.6	806.6	804.6	810.7	810.7
7.5°	806.6	806.6	806.6	812.7	814.8
10°	804.6	806.6	806.6	816.8	818.9
12.5°	804.6	806.6	810.7	820.9	825.0
15°	800.5	804.6	810.7	825.0	829.1
17.5°	796.4	802.5	812.7	829.1	833.2
20°	792.3	800.5	812.7	831.2	837.3
22.5°	788.2	796.4	810.7	831.2	837.3
25°	782.0	790.2	808.6	829.1	835.3
27.5°	773.8	784.1	802.5	823.0	829.1
30°	765.7	777.9	796.4	814.8	820.9
32.5°	755.4	767.7	786.1	804.6	808.6
35°	745.2	755.4	773.8	788.2	792.3
37.5°	730.9	739.0	757.5	771.8	773.8
40°	716.5	724.7	739.0	753.4	755.4
42.5°	700.1	706.3	720.6	730.9	732.9
45°	679.7	687.9	696.1	706.3	712.4
47.5°	659.2	665.3	671.5	681.7	683.8
50°	636.7	640.8	644.9	655.1	655.1
52.5°	612.1	616.2	616.2	624.4	626.4
55°	585.5	585.5	585.5	593.7	595.7
57.5°	556.8	556.8	552.7	563.0	567.1
60°	524.1	524.1	517.9	530.2	536.4
62.5°	489.3	487.2	481.1	495.4	503.6
65°	452.4	448.3	440.2	462.7	464.7
67.5°	413.5	409.4	401.3	423.8	429.9
70°	368.5	368.5	358.3	384.9	386.9
72.5°	325.5	319.4	317.3	339.8	346.0
75°	276.4	270.2	270.2	294.8	294.8
77.5°	227.2	219.1	219.1	241.6	247.7
80°	169.9	167.9	169.9	186.3	188.3
82.5°	120.8	114.6	120.8	131.0	133.1
85°	67.6	69.6	77.8	83.9	81.9
87.5°	26.6	36.8	45.0	49.1	51.2
90°	2.0	28.7	47.1	59.4	63.5
92.5°	12.3	47.1	67.6	79.8	83.9
95°	30.7	65.5	92.1	106.5	108.5
97.5°	51.2	77.8	110.5	129.0	135.1
100°	73.7	90.1	124.9	147.4	153.5
102.5°	96.2	104.4	139.2	161.7	169.9
105°	118.7	118.7	145.4	174.0	180.2
107.5°	139.2	135.1	147.4	182.2	192.4
110°	157.6	149.4	159.7	180.2	196.5



TEST NUMBER: P213023

CATALOG NUMBER: DSI-WS-40L840-1D-UNV-4-STD-DC-W

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	169.9	161.7	176.1	180.2	190.4
115°	178.1	172.0	188.3	192.4	190.4
117.5°	182.2	178.1	198.6	225.2	217.0
120°	182.2	182.2	202.7	247.7	255.9
122.5°	176.1	182.2	204.7	257.9	278.4
125°	167.9	176.1	202.7	257.9	284.6
127.5°	155.6	167.9	198.6	249.8	280.5
130°	145.4	159.7	190.4	237.5	266.1
132.5°	135.1	151.5	178.1	221.1	245.7
135°	124.9	141.3	165.8	204.7	225.2
137.5°	116.7	133.1	153.5	188.3	204.7
140°	110.5	129.0	145.4	169.9	186.3
142.5°	104.4	120.8	135.1	155.6	165.8
145°	98.3	112.6	126.9	145.4	153.5
147.5°	96.2	110.5	118.7	135.1	143.3
150°	92.1	104.4	114.6	126.9	133.1
152.5°	90.1	100.3	112.6	118.7	120.8
155°	88.0	98.3	108.5	112.6	112.6
157.5°	86.0	98.3	106.5	106.5	110.5
160°	83.9	92.1	100.3	108.5	106.5
162.5°	83.9	90.1	100.3	104.4	104.4
165°	86.0	90.1	92.1	98.3	100.3
167.5°	86.0	90.1	94.2	94.2	96.2
170°	83.9	86.0	88.0	94.2	90.1
172.5°	81.9	86.0	90.1	88.0	86.0
175°	77.8	86.0	83.9	86.0	86.0
177.5°	75.7	77.8	83.9	86.0	83.9
180°	75.7	75.7	75.7	75.7	75.7

(END OF REPORT)