

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: P213016

Luminaire Tested: **DSI-WS-20L835-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213016
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-20L835-1D-UNV-4-STD-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH DUST COVER, LIGHT LEVEL 1.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2037.5 lumens
Efficiency: N/A
Efficacy: 134.0 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

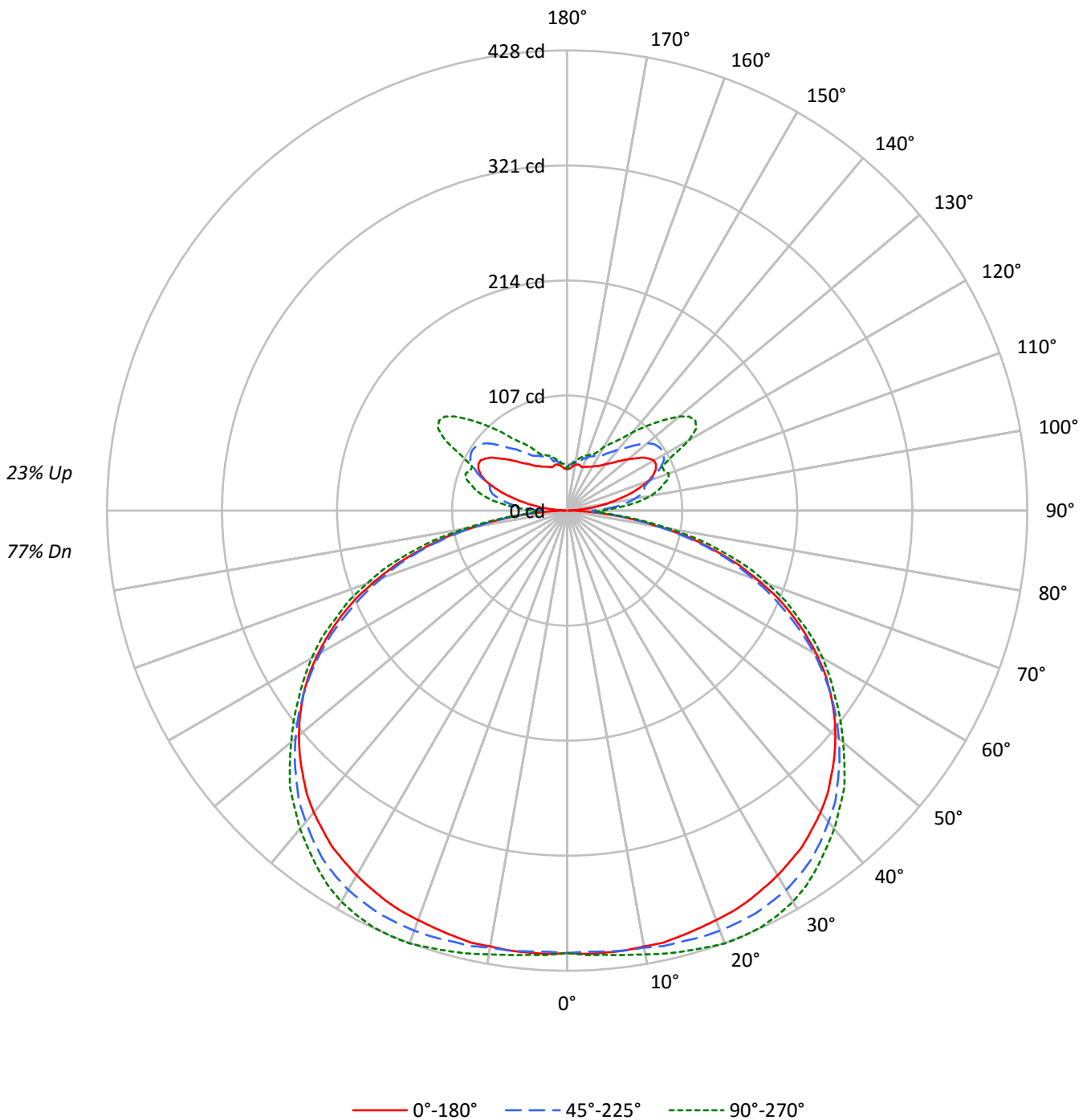
Input Watts (W): 15.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1387	1387	1387
5°	1396	1392	1403
10°	1408	1412	1434
15°	1429	1447	1480
20°	1453	1491	1536
25°	1488	1538	1589
30°	1524	1585	1634
35°	1568	1629	1667
40°	1613	1663	1700
45°	1657	1697	1737
50°	1707	1729	1757
55°	1760	1760	1791
60°	1807	1786	1849
65°	1846	1796	1896
70°	1857	1806	1951
75°	1841	1801	1963
80°	1686	1686	1871
85°	1338	1539	1620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	1.9
10°-20°	118.0	5.8
20°-30°	191.1	9.4
30°-40°	247.0	12.1
40°-50°	274.9	13.5
50°-60°	269.4	13.2
60°-70°	228.7	11.2
70°-80°	150.0	7.4
80°-90°	48.9	2.4
90°-100°	45.6	2.2
100°-110°	78.6	3.9
110°-120°	94.9	4.7
120°-130°	97.4	4.8
130°-140°	68.5	3.4
140°-150°	41.7	2.0
150°-160°	25.2	1.2
160°-170°	13.7	0.7
170°-180°	4.2	0.2
0°-30°	348.6	17.1
0°-40°	595.6	29.2
0°-60°	1139.9	55.9
0°-90°	1567.6	76.9
90°-120°	219.2	10.8
90°-150°	426.8	20.9
90°-180°	470.0	23.1
0°-180°	2037.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	413	413	412	415	415	39
15°	410	412	415	422	424	116
25°	400	404	414	424	427	185
35°	381	386	396	403	405	239
45°	348	352	356	361	364	269
55°	300	300	300	304	305	267
65°	232	229	225	237	238	228
75°	141	138	138	151	151	148
85°	35	36	40	43	42	40
90°	1	15	24	30	32	3
95°	16	34	47	54	56	17
105°	61	61	74	89	92	63
115°	91	88	96	98	97	89
125°	86	90	104	132	146	76
135°	64	72	85	105	115	50
145°	50	58	65	74	79	32
155°	45	50	56	58	58	21
165°	44	46	47	50	51	12
175°	40	44	43	44	44	4
180°	39	39	39	39	39	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.6	411.6	411.6	411.6	411.6
2.5°	412.7	412.7	410.6	412.7	413.7
5°	412.7	412.7	411.6	414.8	414.8
7.5°	412.7	412.7	412.7	415.8	416.9
10°	411.6	412.7	412.7	417.9	419.0
12.5°	411.6	412.7	414.8	420.0	422.1
15°	409.5	411.6	414.8	422.1	424.2
17.5°	407.4	410.6	415.8	424.2	426.3
20°	405.3	409.5	415.8	425.2	428.4
22.5°	403.3	407.4	414.8	425.2	428.4
25°	400.1	404.3	413.7	424.2	427.3
27.5°	395.9	401.2	410.6	421.1	424.2
30°	391.7	398.0	407.4	416.9	420.0
32.5°	386.5	392.8	402.2	411.6	413.7
35°	381.3	386.5	395.9	403.3	405.3
37.5°	373.9	378.1	387.5	394.9	395.9
40°	366.6	370.8	378.1	385.4	386.5
42.5°	358.2	361.4	368.7	373.9	375.0
45°	347.7	351.9	356.1	361.4	364.5
47.5°	337.3	340.4	343.6	348.8	349.8
50°	325.7	327.8	329.9	335.2	335.2
52.5°	313.2	315.3	315.3	319.5	320.5
55°	299.6	299.6	299.6	303.7	304.8
57.5°	284.9	284.9	282.8	288.0	290.1
60°	268.1	268.1	265.0	271.3	274.4
62.5°	250.3	249.3	246.1	253.5	257.7
65°	231.5	229.4	225.2	236.7	237.8
67.5°	211.6	209.5	205.3	216.8	220.0
70°	188.5	188.5	183.3	196.9	198.0
72.5°	166.5	163.4	162.3	173.9	177.0
75°	141.4	138.3	138.3	150.8	150.8
77.5°	116.3	112.1	112.1	123.6	126.7
80°	86.9	85.9	86.9	95.3	96.4
82.5°	61.8	58.7	61.8	67.0	68.1
85°	34.6	35.6	39.8	42.9	41.9
87.5°	13.6	18.9	23.0	25.1	26.2
90°	1.0	14.7	24.1	30.4	32.5
92.5°	6.3	24.1	34.6	40.8	42.9
95°	15.7	33.5	47.1	54.5	55.5
97.5°	26.2	39.8	56.6	66.0	69.1
100°	37.7	46.1	63.9	75.4	78.6
102.5°	49.2	53.4	71.2	82.7	86.9
105°	60.7	60.7	74.4	89.0	92.2
107.5°	71.2	69.1	75.4	93.2	98.5
110°	80.7	76.5	81.7	92.2	100.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	86.9	82.7	90.1	92.2	97.4
115°	91.1	88.0	96.4	98.5	97.4
117.5°	93.2	91.1	101.6	115.2	111.0
120°	93.2	93.2	103.7	126.7	130.9
122.5°	90.1	93.2	104.7	132.0	142.4
125°	85.9	90.1	103.7	132.0	145.6
127.5°	79.6	85.9	101.6	127.8	143.5
130°	74.4	81.7	97.4	121.5	136.2
132.5°	69.1	77.5	91.1	113.1	125.7
135°	63.9	72.3	84.8	104.7	115.2
137.5°	59.7	68.1	78.6	96.4	104.7
140°	56.6	66.0	74.4	86.9	95.3
142.5°	53.4	61.8	69.1	79.6	84.8
145°	50.3	57.6	64.9	74.4	78.6
147.5°	49.2	56.6	60.7	69.1	73.3
150°	47.1	53.4	58.7	64.9	68.1
152.5°	46.1	51.3	57.6	60.7	61.8
155°	45.0	50.3	55.5	57.6	57.6
157.5°	44.0	50.3	54.5	54.5	56.6
160°	42.9	47.1	51.3	55.5	54.5
162.5°	42.9	46.1	51.3	53.4	53.4
165°	44.0	46.1	47.1	50.3	51.3
167.5°	44.0	46.1	48.2	48.2	49.2
170°	42.9	44.0	45.0	48.2	46.1
172.5°	41.9	44.0	46.1	45.0	44.0
175°	39.8	44.0	42.9	44.0	44.0
177.5°	38.8	39.8	42.9	44.0	42.9
180°	38.8	38.8	38.8	38.8	38.8

(END OF REPORT)