

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: P213030

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213030
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-20L835-1D-UNV-4-STD-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH FROSTED COVER, LIGHT LEVEL 1.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2039.6 lumens
Efficiency: N/A
Efficacy: 134.2 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

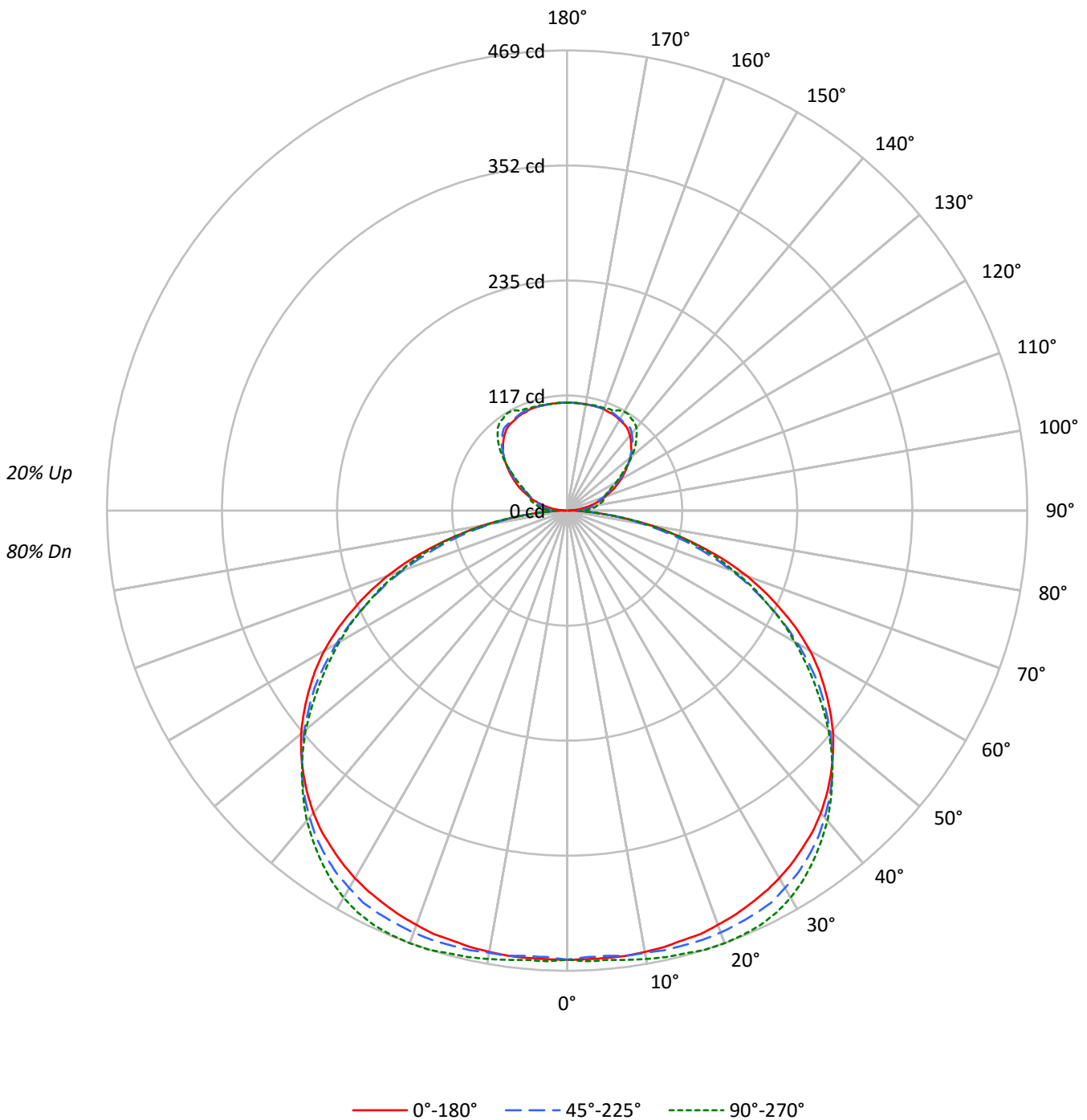
Input Watts (W): 15.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1542	1542	1542
5°	1548	1541	1555
10°	1563	1566	1588
15°	1582	1600	1629
20°	1611	1641	1682
25°	1643	1686	1733
30°	1683	1728	1773
35°	1724	1766	1797
40°	1769	1797	1815
45°	1812	1822	1822
50°	1856	1834	1823
55°	1889	1846	1809
60°	1927	1828	1807
65°	1929	1796	1796
70°	1919	1755	1785
75°	1828	1677	1773
80°	1667	1525	1646
85°	1295	1295	1214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	2.1
10°-20°	130.4	6.4
20°-30°	209.6	10.3
30°-40°	268.4	13.2
40°-50°	294.6	14.4
50°-60°	280.9	13.8
60°-70°	227.9	11.2
70°-80°	141.2	6.9
80°-90°	40.7	2.0
90°-100°	20.8	1.0
100°-110°	34.8	1.7
110°-120°	48.8	2.4
120°-130°	64.4	3.2
130°-140°	73.0	3.6
140°-150°	67.6	3.3
150°-160°	51.0	2.5
160°-170°	31.3	1.5
170°-180°	10.5	0.5
0°-30°	383.8	18.8
0°-40°	652.2	32.0
0°-60°	1227.8	60.2
0°-90°	1637.5	80.3
90°-120°	104.3	5.1
90°-150°	309.3	15.2
90°-180°	402.0	19.7
0°-180°	2039.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	458	458	456	460	460	44
15°	454	456	459	465	467	128
25°	442	446	454	463	466	204
35°	419	423	429	435	437	263
45°	380	382	382	383	382	293
55°	322	320	314	310	308	288
65°	242	237	225	226	225	239
75°	140	134	129	135	136	148
85°	34	32	34	34	31	38
90°	1	7	10	13	13	3
95°	9	16	21	25	26	10
105°	30	30	31	37	38	32
115°	52	51	48	46	46	51
125°	73	72	71	71	70	66
135°	92	91	94	98	100	71
145°	105	104	107	112	114	65
155°	109	109	110	111	112	50
165°	110	110	110	111	111	31
175°	110	110	110	110	110	11
180°	110	110	110	110	110	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.7	457.7	457.7	457.7	457.7
2.5°	457.7	457.7	455.6	458.8	459.8
5°	457.7	457.7	455.6	459.8	459.8
7.5°	457.7	457.7	457.7	460.9	461.9
10°	456.7	457.7	457.7	463.0	464.0
12.5°	455.6	457.7	458.8	464.0	466.1
15°	453.5	455.6	458.8	465.1	467.1
17.5°	452.5	454.6	458.8	467.1	469.2
20°	449.3	452.5	457.7	466.1	469.2
22.5°	446.2	449.3	455.6	465.1	468.2
25°	442.0	446.2	453.5	463.0	466.1
27.5°	437.8	442.0	450.4	458.8	461.9
30°	432.6	436.8	444.1	452.5	455.6
32.5°	426.3	430.5	437.8	445.1	447.2
35°	419.0	423.2	429.4	434.7	436.8
37.5°	411.6	414.8	420.0	424.2	425.2
40°	402.2	405.3	408.5	411.6	412.7
42.5°	391.7	394.9	395.9	398.0	398.0
45°	380.2	382.3	382.3	383.4	382.3
47.5°	367.6	368.7	366.6	366.6	365.5
50°	354.0	354.0	349.8	348.8	347.7
52.5°	338.3	337.3	332.0	329.9	327.8
55°	321.6	319.5	314.2	310.0	307.9
57.5°	304.8	301.7	293.3	289.1	288.0
60°	285.9	281.8	271.3	268.1	268.1
62.5°	265.0	259.8	249.3	247.2	248.2
65°	242.0	236.7	225.2	226.2	225.2
67.5°	218.9	212.6	202.2	204.2	205.3
70°	194.8	188.5	178.1	181.2	181.2
72.5°	168.6	161.3	152.9	159.2	160.3
75°	140.4	134.1	128.8	135.1	136.2
77.5°	112.1	107.9	103.7	111.0	112.1
80°	85.9	80.7	78.6	84.8	84.8
82.5°	56.6	55.5	56.6	59.7	58.7
85°	33.5	32.5	33.5	33.5	31.4
87.5°	14.7	14.7	13.6	11.5	12.6
90°	1.0	7.3	10.5	12.6	12.6
92.5°	5.2	12.6	17.8	19.9	19.9
95°	9.4	15.7	20.9	25.1	26.2
97.5°	14.7	17.8	24.1	28.3	29.3
100°	19.9	19.9	27.2	30.4	31.4
102.5°	25.1	25.1	29.3	33.5	34.6
105°	30.4	30.4	31.4	36.7	37.7
107.5°	36.7	35.6	33.5	37.7	39.8
110°	40.8	40.8	38.8	39.8	40.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.1	46.1	42.9	41.9	42.9
115°	52.4	51.3	48.2	46.1	46.1
117.5°	57.6	56.6	54.5	52.4	51.3
120°	62.8	61.8	59.7	58.7	57.6
122.5°	68.1	68.1	66.0	64.9	63.9
125°	73.3	72.3	71.2	71.2	70.2
127.5°	78.6	77.5	78.6	78.6	78.6
130°	83.8	81.7	83.8	84.8	85.9
132.5°	89.0	86.9	89.0	92.2	93.2
135°	92.2	91.1	94.3	98.5	99.5
137.5°	96.4	95.3	98.5	103.7	104.7
140°	99.5	99.5	102.6	107.9	110.0
142.5°	102.6	101.6	105.8	110.0	113.1
145°	104.7	103.7	106.8	112.1	114.2
147.5°	105.8	105.8	106.8	114.2	116.3
150°	106.8	106.8	107.9	114.2	116.3
152.5°	107.9	107.9	108.9	112.1	115.2
155°	108.9	108.9	110.0	111.0	112.1
157.5°	108.9	108.9	110.0	111.0	112.1
160°	110.0	110.0	110.0	111.0	111.0
162.5°	110.0	110.0	110.0	111.0	111.0
165°	110.0	110.0	110.0	111.0	111.0
167.5°	110.0	110.0	110.0	110.0	110.0
170°	110.0	110.0	110.0	110.0	110.0
172.5°	110.0	110.0	110.0	110.0	110.0
175°	110.0	110.0	110.0	110.0	110.0
177.5°	110.0	110.0	110.0	110.0	110.0
180°	110.0	110.0	110.0	110.0	110.0

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