

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: P35729

Luminaire Tested: **DSI-WS-20L830-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35729
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-20L830-1D-UNV-4-STD-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH DUST COVER, LIGHT LEVEL 1.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1945.3 lumens
Efficiency: N/A
Efficacy: 127.1 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

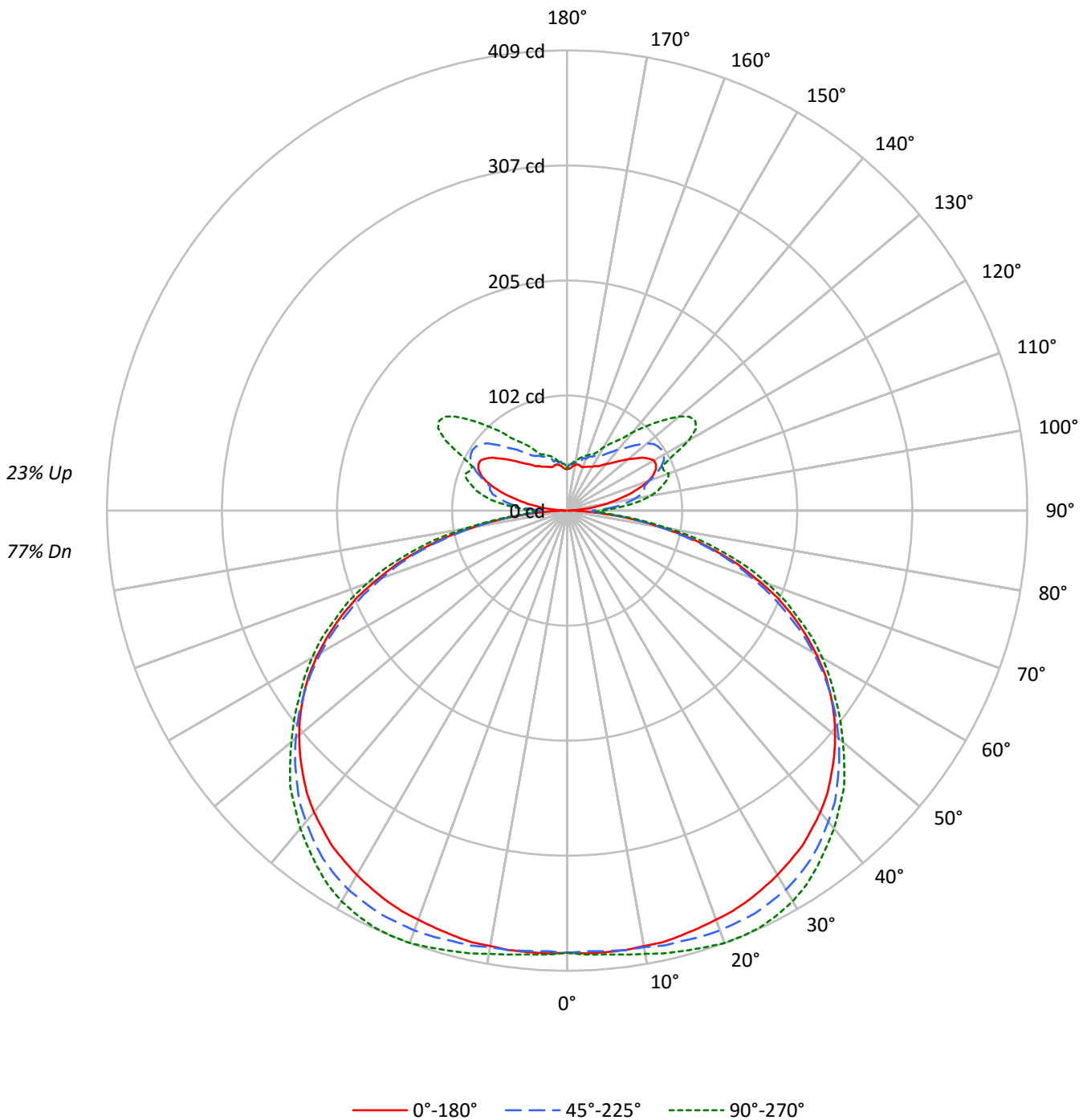
Input Watts (W): 15.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1324	1324	1324
5°	1333	1329	1339
10°	1345	1348	1369
15°	1364	1381	1413
20°	1388	1424	1467
25°	1420	1469	1517
30°	1455	1514	1560
35°	1497	1555	1592
40°	1540	1588	1623
45°	1582	1620	1658
50°	1630	1651	1677
55°	1680	1680	1710
60°	1725	1705	1766
65°	1762	1714	1810
70°	1773	1724	1862
75°	1758	1719	1875
80°	1611	1611	1785
85°	1276	1469	1546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	1.9
10°-20°	112.7	5.8
20°-30°	182.4	9.4
30°-40°	235.8	12.1
40°-50°	262.5	13.5
50°-60°	257.2	13.2
60°-70°	218.4	11.2
70°-80°	143.2	7.4
80°-90°	46.7	2.4
90°-100°	43.5	2.2
100°-110°	75.1	3.9
110°-120°	90.6	4.7
120°-130°	93.0	4.8
130°-140°	65.4	3.4
140°-150°	39.8	2.0
150°-160°	24.0	1.2
160°-170°	13.1	0.7
170°-180°	4.0	0.2
0°-30°	332.8	17.1
0°-40°	568.7	29.2
0°-60°	1088.3	55.9
0°-90°	1496.7	76.9
90°-120°	209.3	10.8
90°-150°	407.5	20.9
90°-180°	449.0	23.1
0°-180°	1945.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	393	393	393	393	393	
5°	394	394	393	396	396	38
15°	391	393	396	403	405	111
25°	382	386	395	405	408	176
35°	364	369	378	385	387	228
45°	332	336	340	345	348	256
55°	286	286	286	290	291	255
65°	221	219	215	226	227	218
75°	135	132	132	144	144	142
85°	33	34	38	41	40	38
90°	1	14	23	29	31	3
95°	15	32	45	52	53	17
105°	58	58	71	85	88	61
115°	87	84	92	94	93	85
125°	82	86	99	126	139	73
135°	61	69	81	100	110	48
145°	48	55	62	71	75	31
155°	43	48	53	55	55	20
165°	42	44	45	48	49	12
175°	38	42	41	42	42	4
180°	37	37	37	37	37	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	393	393	393	393	393
2.5°	394	394	392	394	395
5°	394	394	393	396	396
7.5°	394	394	394	397	398
10°	393	394	394	399	400
12.5°	393	394	396	401	403
15°	391	393	396	403	405
17.5°	389	392	397	405	407
20°	387	391	397	406	409
22.5°	385	389	396	406	409
25°	382	386	395	405	408
27.5°	378	383	392	402	405
30°	374	380	389	398	401
32.5°	369	375	384	393	395
35°	364	369	378	385	387
37.5°	357	361	370	377	378
40°	350	354	361	368	369
42.5°	342	345	352	357	358
45°	332	336	340	345	348
47.5°	322	325	328	333	334
50°	311	313	315	320	320
52.5°	299	301	301	305	306
55°	286	286	286	290	291
57.5°	272	272	270	275	277
60°	256	256	253	259	262
62.5°	239	238	235	242	246
65°	221	219	215	226	227
67.5°	202	200	196	207	210
70°	180	180	175	188	189
72.5°	159	156	155	166	169
75°	135	132	132	144	144
77.5°	111	107	107	118	121
80°	83	82	83	91	92
82.5°	59	56	59	64	65
85°	33	34	38	41	40
87.5°	13	18	22	24	25
90°	1	14	23	29	31
92.5°	6	23	33	39	41
95°	15	32	45	52	53
97.5°	25	38	54	63	66
100°	36	44	61	72	75
102.5°	47	51	68	79	83
105°	58	58	71	85	88
107.5°	68	66	72	89	94
110°	77	73	78	88	96



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	83	79	86	88	93
115°	87	84	92	94	93
117.5°	89	87	97	110	106
120°	89	89	99	121	125
122.5°	86	89	100	126	136
125°	82	86	99	126	139
127.5°	76	82	97	122	137
130°	71	78	93	116	130
132.5°	66	74	87	108	120
135°	61	69	81	100	110
137.5°	57	65	75	92	100
140°	54	63	71	83	91
142.5°	51	59	66	76	81
145°	48	55	62	71	75
147.5°	47	54	58	66	70
150°	45	51	56	62	65
152.5°	44	49	55	58	59
155°	43	48	53	55	55
157.5°	42	48	52	52	54
160°	41	45	49	53	52
162.5°	41	44	49	51	51
165°	42	44	45	48	49
167.5°	42	44	46	46	47
170°	41	42	43	46	44
172.5°	40	42	44	43	42
175°	38	42	41	42	42
177.5°	37	38	41	42	41
180°	37	37	37	37	37

(END OF REPORT)