

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: P35728

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35728
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-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC, LIGHT LEVEL 1.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1975.1 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.47 / 1.54
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

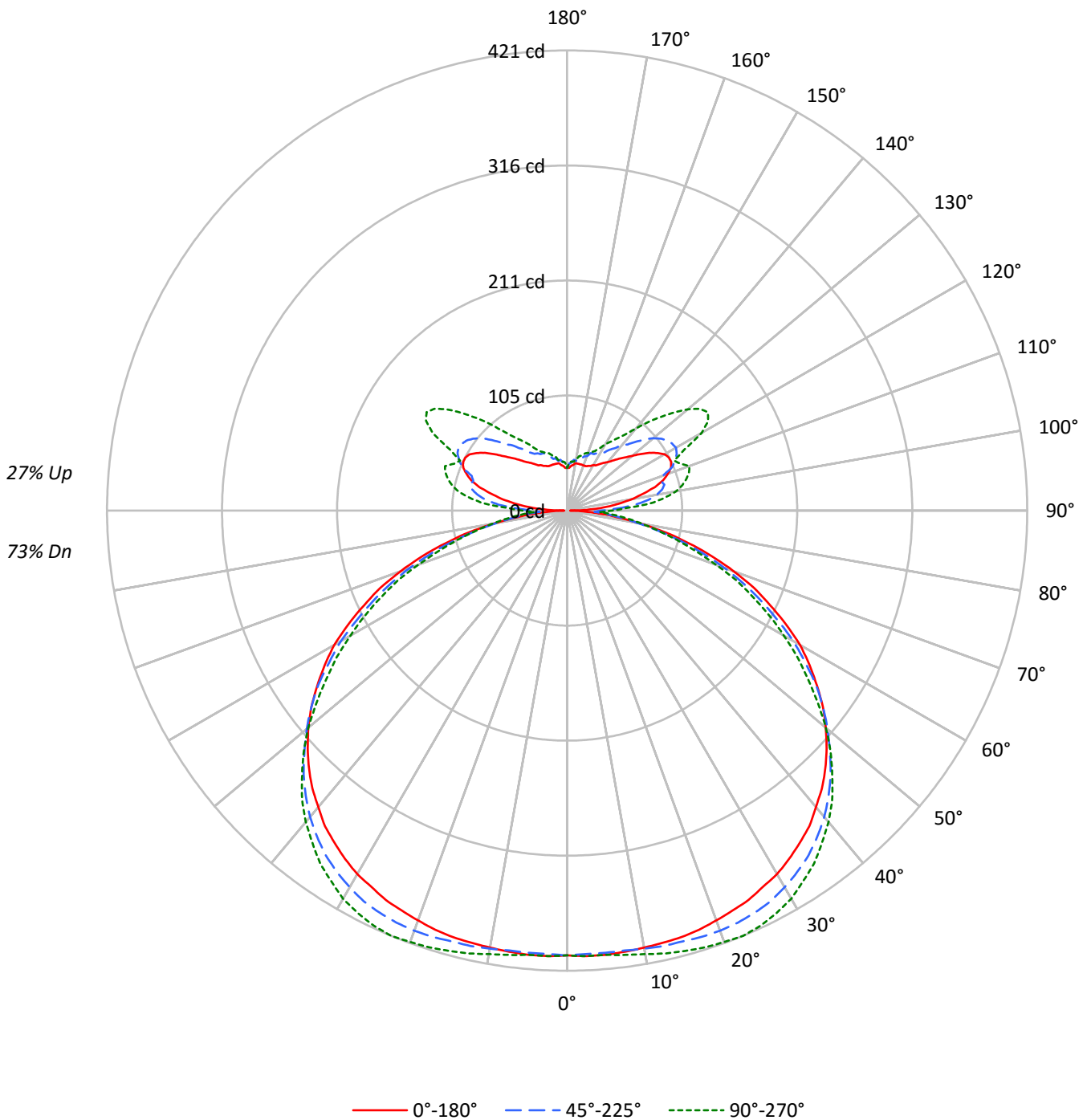
Input Watts (W): 15.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P35728

CATALOG NUMBER: DSI-WS-20L830-1D-UNV-4-STD-W

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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	102	97	93	89	97	92	89	85	83	80	78	75	73	70	67	65	64	60
2	92	84	77	72	87	80	74	69	72	67	63	65	61	58	58	55	53	49
3	84	74	65	59	79	70	63	57	63	57	52	57	52	48	51	47	44	41
4	77	65	56	49	72	62	54	48	56	49	44	50	45	41	45	41	37	34
5	70	57	49	42	66	55	47	41	50	43	38	45	39	35	40	36	32	29
6	65	51	43	36	61	49	41	35	45	38	33	40	35	30	36	32	28	25
7	60	46	38	32	56	44	36	31	40	34	29	37	31	27	33	28	25	22
8	55	42	34	28	52	40	32	27	37	30	25	33	28	24	30	26	22	20
9	51	38	30	25	49	37	29	24	34	27	23	31	25	21	28	23	20	18
10	48	35	27	22	46	34	27	22	31	25	20	28	23	19	26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1371	1371	1371
5°	1380	1373	1380
10°	1389	1393	1410
15°	1409	1423	1455
20°	1431	1467	1506
25°	1461	1509	1558
30°	1494	1549	1595
35°	1526	1584	1621
40°	1557	1610	1636
45°	1592	1625	1634
50°	1620	1630	1620
55°	1639	1633	1580
60°	1658	1611	1543
65°	1634	1563	1499
70°	1596	1507	1429
75°	1497	1406	1354
80°	1300	1261	1358
85°	1044	1392	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	2.0
10°-20°	116.1	5.9
20°-30°	187.4	9.5
30°-40°	240.1	12.2
40°-50°	262.2	13.3
50°-60°	246.5	12.5
60°-70°	194.4	9.8
70°-80°	115.2	5.8
80°-90°	42.3	2.1
90°-100°	62.1	3.1
100°-110°	98.0	5.0
110°-120°	107.6	5.4
120°-130°	105.1	5.3
130°-140°	71.8	3.6
140°-150°	43.2	2.2
150°-160°	25.8	1.3
160°-170°	14.1	0.7
170°-180°	4.3	0.2
0°-30°	342.4	17.3
0°-40°	582.6	29.5
0°-60°	1091.2	55.2
0°-90°	1443.1	73.1
90°-120°	267.7	13.6
90°-150°	487.8	24.7
90°-180°	532.0	26.9
0°-180°	1975.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	407	407	407	407	407	
5°	408	408	406	408	408	39
15°	404	405	408	415	417	114
25°	393	397	406	416	419	181
35°	371	376	385	393	394	232
45°	334	337	341	344	343	258
55°	279	280	278	273	269	249
65°	205	203	196	192	188	203
75°	115	113	108	104	104	121
85°	27	29	36	41	42	31
90°	3	18	31	38	41	5
95°	34	48	63	74	77	33
105°	83	79	92	108	113	86
115°	105	101	109	108	108	103
125°	92	98	112	141	157	82
135°	67	75	89	109	121	52
145°	52	60	68	77	81	33
155°	45	51	57	59	60	21
165°	44	48	49	51	52	12
175°	41	45	44	45	45	4
180°	39	39	39	39	39	



TEST NUMBER: P35728

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	407	407	407	407	407
2.5°	408	408	406	408	408
5°	408	408	406	408	408
7.5°	407	407	406	410	410
10°	406	407	407	412	412
12.5°	405	406	408	413	415
15°	404	405	408	415	417
17.5°	402	404	409	417	419
20°	399	402	409	418	420
22.5°	396	400	408	417	421
25°	393	397	406	416	419
27.5°	388	393	403	412	415
30°	384	389	398	407	410
32.5°	378	383	392	400	402
35°	371	376	385	393	394
37.5°	364	369	376	382	383
40°	354	359	366	370	372
42.5°	345	350	354	358	359
45°	334	337	341	344	343
47.5°	322	325	326	329	327
50°	309	311	311	311	309
52.5°	295	295	295	292	289
55°	279	280	278	273	269
57.5°	263	263	258	253	250
60°	246	243	239	232	229
62.5°	226	223	217	212	209
65°	205	203	196	192	188
67.5°	185	182	175	169	168
70°	162	160	153	148	145
72.5°	139	136	130	126	123
75°	115	113	108	104	104
77.5°	92	90	85	85	85
80°	67	67	65	68	70
82.5°	46	46	49	54	55
85°	27	29	36	41	42
87.5°	12	17	25	29	30
90°	3	18	31	38	41
92.5°	18	34	47	52	54
95°	34	48	63	74	77
97.5°	47	57	75	87	90
100°	60	61	83	97	101
102.5°	71	70	89	103	108
105°	83	79	92	108	113
107.5°	92	86	90	112	117
110°	98	93	93	109	119



TEST NUMBER: P35728

CATALOG NUMBER: DSI-WS-20L830-1D-UNV-4-STD-W

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103	98	104	104	112
115°	105	101	109	108	108
117.5°	105	103	113	127	121
120°	103	104	115	139	142
122.5°	98	102	114	143	153
125°	92	98	112	141	157
127.5°	85	93	108	137	153
130°	78	87	103	129	144
132.5°	72	82	96	119	133
135°	67	75	89	109	121
137.5°	62	71	82	100	110
140°	58	68	78	90	98
142.5°	55	64	72	82	88
145°	52	60	68	77	81
147.5°	49	58	63	72	75
150°	48	55	60	67	70
152.5°	46	52	59	63	64
155°	45	51	57	59	60
157.5°	44	51	57	57	58
160°	44	48	53	57	56
162.5°	44	47	52	56	55
165°	44	48	49	51	52
167.5°	44	47	49	50	51
170°	44	45	46	49	47
172.5°	42	45	47	46	45
175°	41	45	44	45	45
177.5°	39	41	43	44	44
180°	39	39	39	39	39

(END OF REPORT)