

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: P35730

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35730
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-FC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC WITH FROSTED COVER, LIGHT LEVEL 1.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1947.2 lumens
Efficiency: N/A
Efficacy: 127.3 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

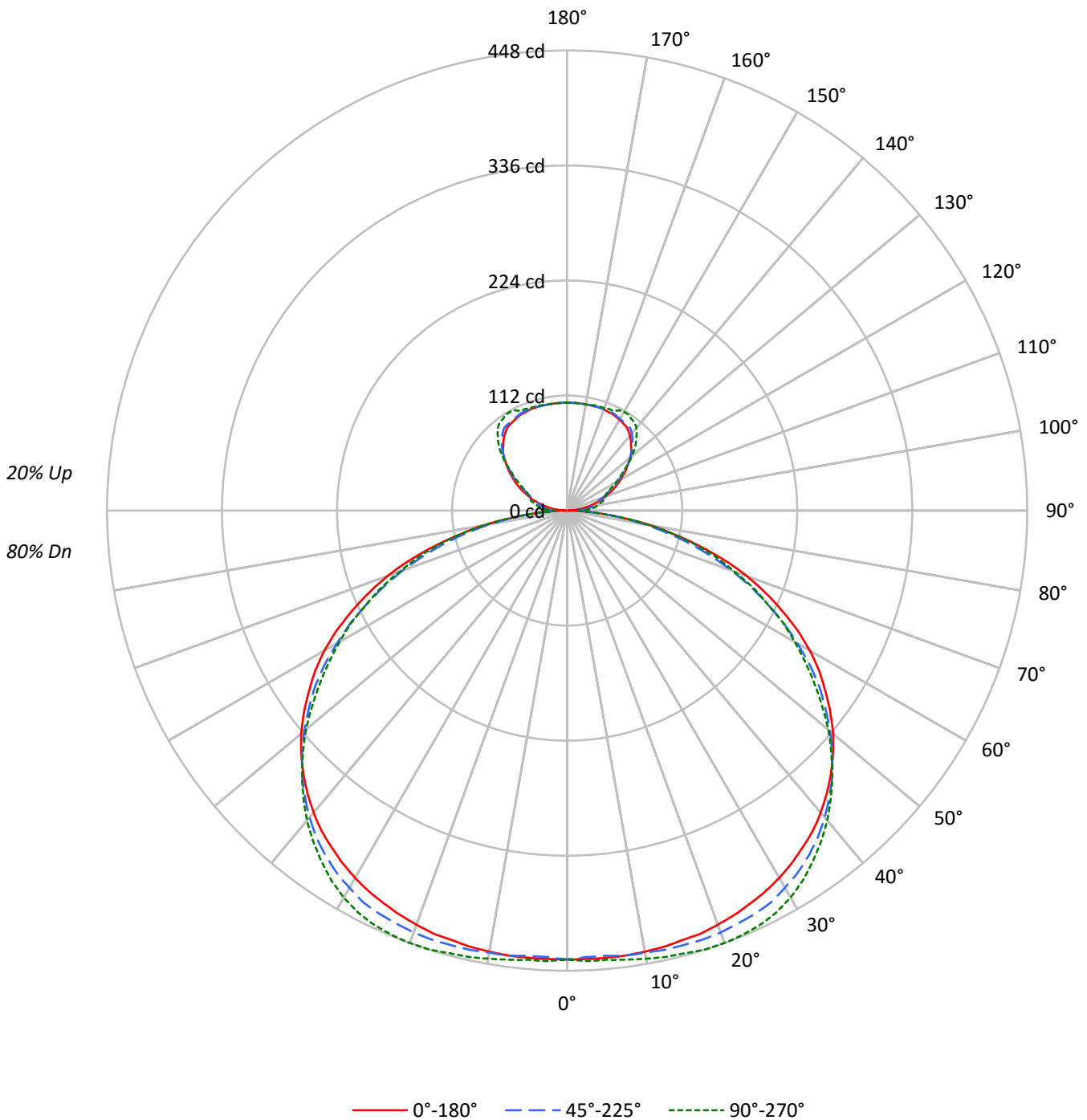
Input Watts (W): 15.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P35730

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

Luminous Intensity Polar Plot





TEST NUMBER: P35730

CATALOG NUMBER: DSI-WS-20L830-1D-UNV-4-STD-FC-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	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°	1473	1473	1473
5°	1478	1471	1485
10°	1492	1495	1516
15°	1510	1528	1556
20°	1538	1567	1606
25°	1569	1610	1654
30°	1607	1650	1693
35°	1645	1687	1715
40°	1689	1715	1733
45°	1730	1739	1739
50°	1772	1751	1740
55°	1804	1762	1727
60°	1840	1745	1725
65°	1842	1714	1714
70°	1832	1675	1704
75°	1745	1601	1692
80°	1591	1455	1572
85°	1237	1237	1160



TEST NUMBER: P35730

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	2.1
10°-20°	124.5	6.4
20°-30°	200.1	10.3
30°-40°	256.3	13.2
40°-50°	281.3	14.4
50°-60°	268.2	13.8
60°-70°	217.6	11.2
70°-80°	134.8	6.9
80°-90°	38.8	2.0
90°-100°	19.8	1.0
100°-110°	33.2	1.7
110°-120°	46.6	2.4
120°-130°	61.5	3.2
130°-140°	69.7	3.6
140°-150°	64.5	3.3
150°-160°	48.7	2.5
160°-170°	29.8	1.5
170°-180°	10.0	0.5
0°-30°	366.4	18.8
0°-40°	622.7	32.0
0°-60°	1172.2	60.2
0°-90°	1563.4	80.3
90°-120°	99.6	5.1
90°-150°	295.3	15.2
90°-180°	384.0	19.7
0°-180°	1947.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	437	437	437	437	437	
5°	437	437	435	439	439	42
15°	433	435	438	444	446	123
25°	422	426	433	442	445	195
35°	400	404	410	415	417	251
45°	363	365	365	366	365	280
55°	307	305	300	296	294	275
65°	231	226	215	216	215	228
75°	134	128	123	129	130	141
85°	32	31	32	32	30	36
90°	1	7	10	12	12	3
95°	9	15	20	24	25	10
105°	29	29	30	35	36	31
115°	50	49	46	44	44	49
125°	70	69	68	68	67	63
135°	88	87	90	94	95	68
145°	100	99	102	107	109	62
155°	104	104	105	106	107	48
165°	105	105	105	106	106	30
175°	105	105	105	105	105	10
180°	105	105	105	105	105	



TEST NUMBER: P35730

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	437	437	437	437	437
2.5°	437	437	435	438	439
5°	437	437	435	439	439
7.5°	437	437	437	440	441
10°	436	437	437	442	443
12.5°	435	437	438	443	445
15°	433	435	438	444	446
17.5°	432	434	438	446	448
20°	429	432	437	445	448
22.5°	426	429	435	444	447
25°	422	426	433	442	445
27.5°	418	422	430	438	441
30°	413	417	424	432	435
32.5°	407	411	418	425	427
35°	400	404	410	415	417
37.5°	393	396	401	405	406
40°	384	387	390	393	394
42.5°	374	377	378	380	380
45°	363	365	365	366	365
47.5°	351	352	350	350	349
50°	338	338	334	333	332
52.5°	323	322	317	315	313
55°	307	305	300	296	294
57.5°	291	288	280	276	275
60°	273	269	259	256	256
62.5°	253	248	238	236	237
65°	231	226	215	216	215
67.5°	209	203	193	195	196
70°	186	180	170	173	173
72.5°	161	154	146	152	153
75°	134	128	123	129	130
77.5°	107	103	99	106	107
80°	82	77	75	81	81
82.5°	54	53	54	57	56
85°	32	31	32	32	30
87.5°	14	14	13	11	12
90°	1	7	10	12	12
92.5°	5	12	17	19	19
95°	9	15	20	24	25
97.5°	14	17	23	27	28
100°	19	19	26	29	30
102.5°	24	24	28	32	33
105°	29	29	30	35	36
107.5°	35	34	32	36	38
110°	39	39	37	38	39



TEST NUMBER: P35730

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	44	44	41	40	41
115°	50	49	46	44	44
117.5°	55	54	52	50	49
120°	60	59	57	56	55
122.5°	65	65	63	62	61
125°	70	69	68	68	67
127.5°	75	74	75	75	75
130°	80	78	80	81	82
132.5°	85	83	85	88	89
135°	88	87	90	94	95
137.5°	92	91	94	99	100
140°	95	95	98	103	105
142.5°	98	97	101	105	108
145°	100	99	102	107	109
147.5°	101	101	102	109	111
150°	102	102	103	109	111
152.5°	103	103	104	107	110
155°	104	104	105	106	107
157.5°	104	104	105	106	107
160°	105	105	105	106	106
162.5°	105	105	105	106	106
165°	105	105	105	106	106
167.5°	105	105	105	105	105
170°	105	105	105	105	105
172.5°	105	105	105	105	105
175°	105	105	105	105	105
177.5°	105	105	105	105	105
180°	105	105	105	105	105

(END OF REPORT)