

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: P35735

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35735
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WD-20L830-1D-UNV-4-STD-SC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH SOLID COVER, LIGHT LEVEL 1.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1976.9 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.38 / 1.47
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

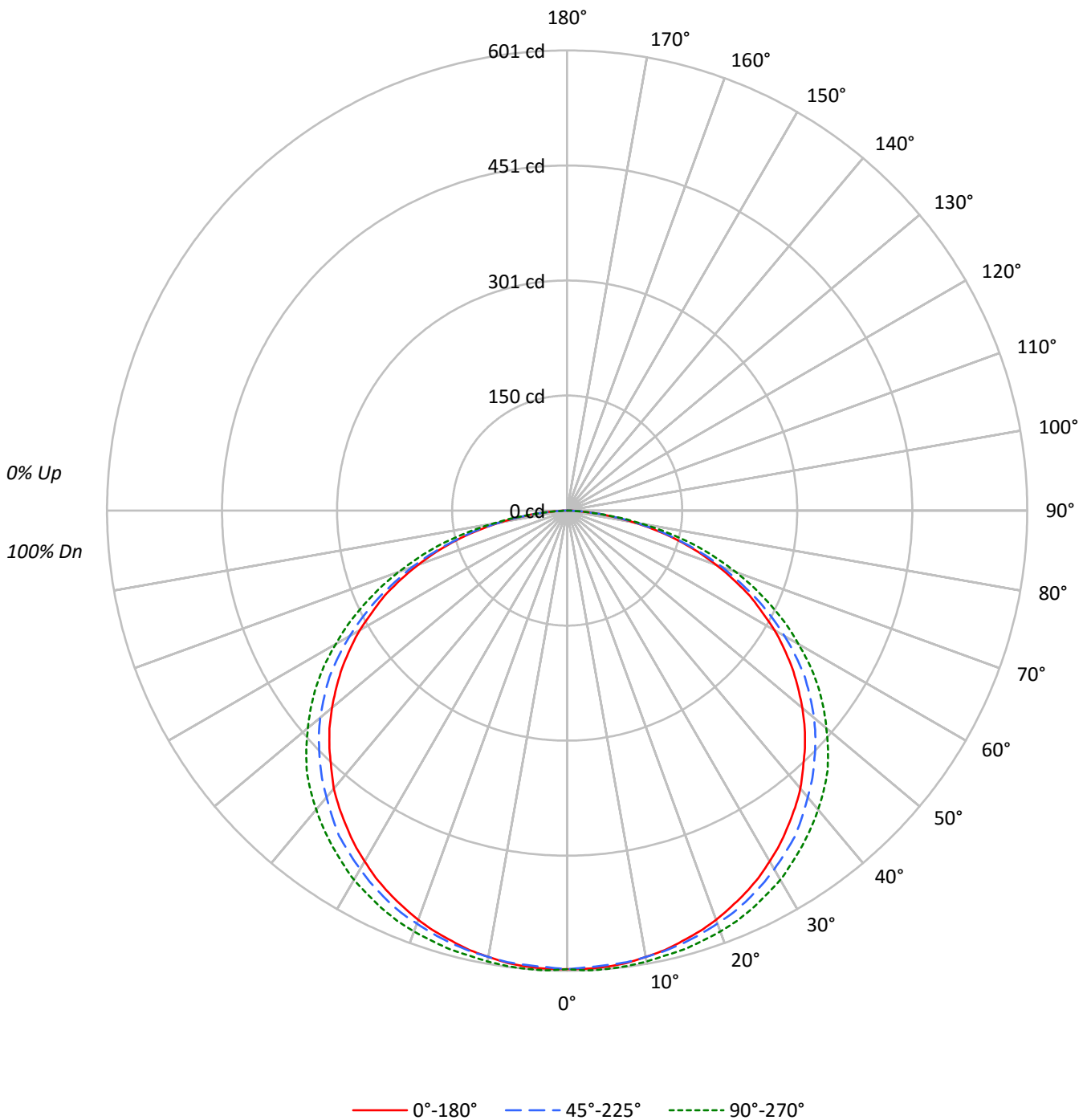
Input Watts (W): 15.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	68	59	52	79	67	58	52	65	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2018	2018	2018
5°	2023	2016	2033
10°	2026	2026	2046
15°	2030	2041	2069
20°	2040	2058	2098
25°	2049	2082	2130
30°	2058	2105	2167
35°	2069	2135	2201
40°	2085	2151	2243
45°	2092	2178	2292
50°	2102	2207	2317
55°	2109	2227	2350
60°	2109	2210	2352
65°	2097	2177	2344
70°	2039	2118	2305
75°	1953	1979	2226
80°	1708	1746	1940
85°	1276	1276	1199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	2.9
10°-20°	165.9	8.4
20°-30°	259.0	13.1
30°-40°	324.8	16.4
40°-50°	354.0	17.9
50°-60°	338.2	17.1
60°-70°	272.5	13.8
70°-80°	165.1	8.4
80°-90°	40.3	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	481.9	24.4
0°-40°	806.6	40.8
0°-60°	1498.9	75.8
0°-90°	1976.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1976.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	599	599	599	599	599	
5°	598	599	596	600	601	57
15°	582	584	585	591	593	165
25°	551	553	560	569	573	254
35°	503	508	519	530	535	315
45°	439	446	457	473	481	339
55°	359	367	379	393	400	320
65°	263	267	273	286	294	259
75°	150	152	152	164	171	157
85°	33	32	33	32	31	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599	599	599	599	599
2.5°	599	599	597	600	601
5°	598	599	596	600	601
7.5°	596	596	595	598	600
10°	592	593	592	596	598
12.5°	588	589	589	594	595
15°	582	584	585	591	593
17.5°	576	578	580	587	589
20°	569	572	574	582	585
22.5°	560	563	568	576	580
25°	551	553	560	569	573
27.5°	541	544	551	561	565
30°	529	534	541	552	557
32.5°	517	522	530	541	546
35°	503	508	519	530	535
37.5°	489	494	504	517	523
40°	474	479	489	504	510
42.5°	456	463	474	489	496
45°	439	446	457	473	481
47.5°	421	428	440	456	462
50°	401	408	421	436	442
52.5°	380	389	400	415	422
55°	359	367	379	393	400
57.5°	336	342	354	368	376
60°	313	318	328	342	349
62.5°	287	293	301	315	323
65°	263	267	273	286	294
67.5°	235	238	243	258	265
70°	207	211	215	228	234
72.5°	179	182	184	195	203
75°	150	152	152	164	171
77.5°	119	120	123	131	135
80°	88	91	90	96	100
82.5°	59	59	59	62	64
85°	33	32	33	32	31
87.5°	11	13	9	7	6
90°	0	0	0	0	0

(END OF REPORT)