

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: P35724

Luminaire Tested: **DSI-WS-30L835-1D-UNV-4-STD-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35724
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-30L835-1D-UNV-4-STD-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC, LIGHT LEVEL 2.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3000.4 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.46 / 1.53
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

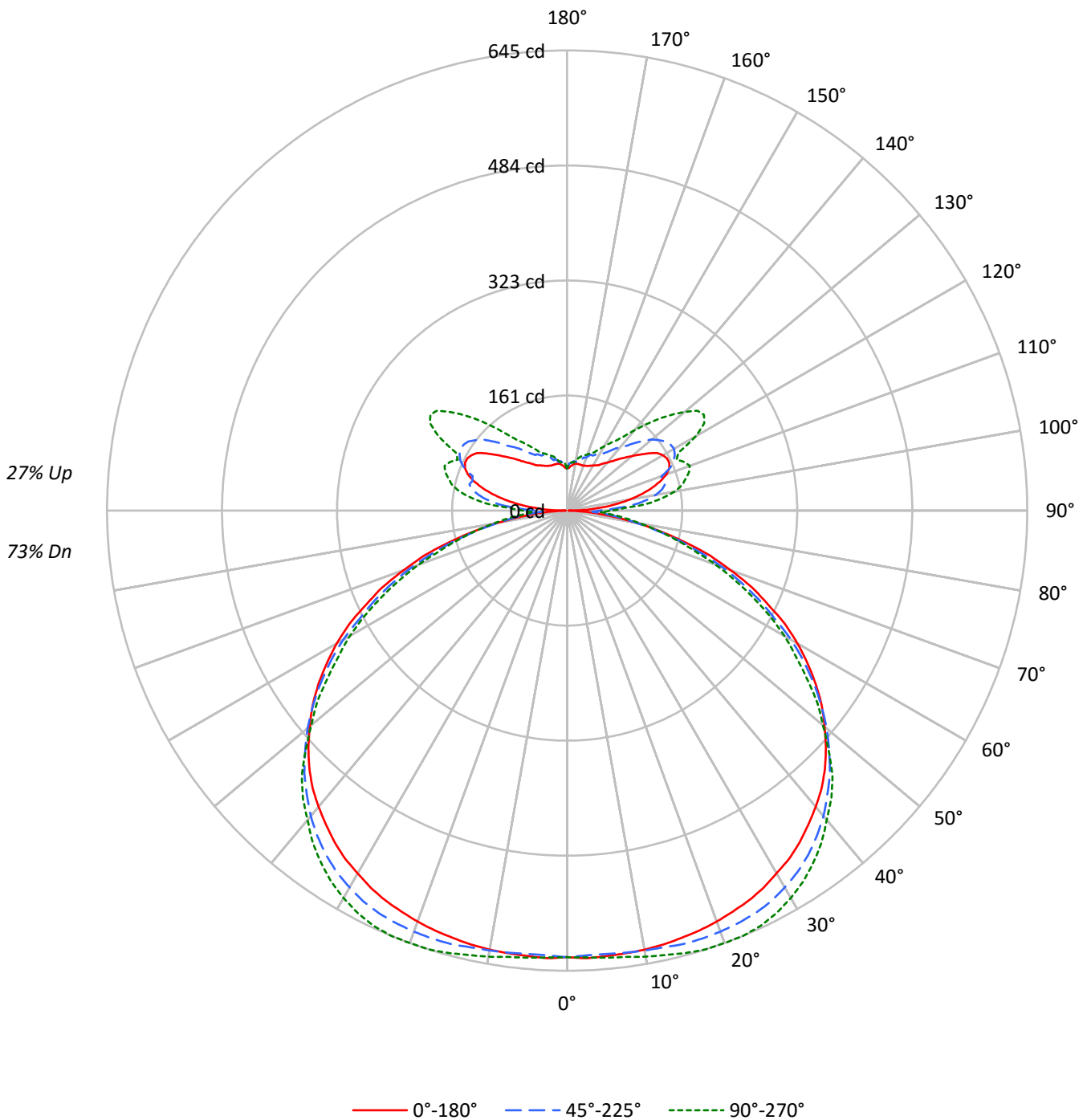
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	78	78	78	73
1	102	97	93	89	97	93	89	85	83	80	78	75	73	71	67	66	64	60
2	93	84	78	72	88	80	74	69	72	68	63	65	61	58	59	56	53	49
3	84	74	66	59	79	70	63	57	63	57	53	57	52	48	51	48	44	41
4	77	65	56	50	72	62	54	48	56	49	44	50	45	41	45	41	38	35
5	70	58	49	42	66	55	47	41	50	43	38	45	40	35	41	36	32	30
6	65	52	43	36	61	49	41	35	45	38	33	41	35	31	37	32	28	26
7	60	46	38	32	56	44	36	31	40	34	29	37	31	27	33	29	25	23
8	55	42	34	28	52	40	33	27	37	30	25	34	28	24	30	26	22	20
9	52	38	30	25	49	37	29	24	34	27	23	31	25	21	28	23	20	18
10	48	35	28	22	46	34	27	22	31	25	20	28	23	19	26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2109	2109	2109
5°	2121	2111	2128
10°	2138	2142	2173
15°	2163	2194	2240
20°	2198	2252	2313
25°	2242	2316	2387
30°	2284	2373	2440
35°	2336	2423	2476
40°	2384	2459	2490
45°	2435	2483	2507
50°	2469	2490	2453
55°	2503	2479	2409
60°	2514	2446	2372
65°	2472	2368	2288
70°	2394	2276	2177
75°	2226	2109	2057
80°	1902	1882	2037
85°	1430	2049	2397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	2.0
10°-20°	178.6	6.0
20°-30°	287.4	9.6
30°-40°	367.3	12.2
40°-50°	400.1	13.3
50°-60°	375.3	12.5
60°-70°	295.2	9.8
70°-80°	173.1	5.8
80°-90°	61.9	2.1
90°-100°	92.5	3.1
100°-110°	149.2	5.0
110°-120°	162.8	5.4
120°-130°	158.0	5.3
130°-140°	108.1	3.6
140°-150°	64.7	2.2
150°-160°	38.8	1.3
160°-170°	21.1	0.7
170°-180°	6.4	0.2
0°-30°	525.9	17.5
0°-40°	893.2	29.8
0°-60°	1668.6	55.6
0°-90°	2198.9	73.3
90°-120°	404.4	13.5
90°-150°	735.1	24.5
90°-180°	802.0	26.7
0°-180°	3000.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	627	627	624	628	629	60
15°	620	623	629	639	642	176
25°	603	610	623	637	642	278
35°	568	576	589	600	602	355
45°	511	515	521	524	526	394
55°	426	426	422	415	410	380
65°	310	308	297	293	287	307
75°	171	168	162	158	158	180
85°	37	41	53	59	62	43
90°	2	27	46	57	62	6
95°	48	71	94	110	114	47
105°	123	118	142	165	172	128
115°	158	153	165	163	169	154
125°	140	148	169	212	234	125
135°	102	113	134	165	182	80
145°	78	90	101	115	120	50
155°	69	77	85	89	90	32
165°	67	72	73	77	79	19
175°	63	68	67	68	68	6
180°	59	59	59	59	59	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626	626	626	626	626
2.5°	628	627	624	627	627
5°	627	627	624	628	629
7.5°	626	626	625	630	631
10°	625	626	626	634	635
12.5°	623	624	627	636	638
15°	620	623	629	639	642
17.5°	617	621	629	641	645
20°	613	618	628	642	645
22.5°	608	614	626	640	645
25°	603	610	623	637	642
27.5°	596	603	618	632	636
30°	587	596	610	624	627
32.5°	579	586	601	613	616
35°	568	576	589	600	602
37.5°	555	564	575	583	586
40°	542	549	559	566	566
42.5°	528	533	540	546	548
45°	511	515	521	524	526
47.5°	492	496	498	500	497
50°	471	475	475	473	468
52.5°	450	451	449	447	442
55°	426	426	422	415	410
57.5°	400	398	393	384	380
60°	373	370	363	354	352
62.5°	344	340	328	323	320
65°	310	308	297	293	287
67.5°	280	275	265	257	254
70°	243	240	231	224	221
72.5°	210	204	196	189	186
75°	171	168	162	158	158
77.5°	133	135	128	129	131
80°	98	98	97	102	105
82.5°	64	67	73	80	82
85°	37	41	53	59	62
87.5°	14	24	35	44	47
90°	2	27	46	57	62
92.5°	26	50	67	75	80
95°	48	71	94	110	114
97.5°	69	87	112	131	135
100°	89	94	126	146	153
102.5°	107	106	136	157	165
105°	123	118	142	165	172
107.5°	137	130	139	171	179
110°	148	140	141	172	183



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	155	148	156	163	178
115°	158	153	165	163	169
117.5°	158	155	170	188	176
120°	155	156	173	207	208
122.5°	150	154	172	214	228
125°	140	148	169	212	234
127.5°	129	140	162	205	230
130°	119	132	155	194	215
132.5°	110	123	144	179	199
135°	102	113	134	165	182
137.5°	94	107	123	150	164
140°	88	103	116	135	147
142.5°	83	96	109	123	131
145°	78	90	101	115	120
147.5°	75	87	95	107	112
150°	73	83	90	100	104
152.5°	71	79	89	94	97
155°	69	77	85	89	90
157.5°	68	76	85	84	87
160°	67	73	79	84	84
162.5°	67	71	78	83	81
165°	67	72	73	77	79
167.5°	67	70	74	75	76
170°	67	67	69	73	71
172.5°	65	68	70	69	68
175°	63	68	67	68	68
177.5°	60	62	66	67	66
180°	59	59	59	59	59

(END OF REPORT)