

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: P35725

Luminaire Tested: **DSI-WS-40L835-1D-UNV-4-STD-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35725
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-40L835-1D-UNV-4-STD-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC, LIGHT LEVEL 3.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3995.4 lumens
Efficiency: N/A
Efficacy: 133.2 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

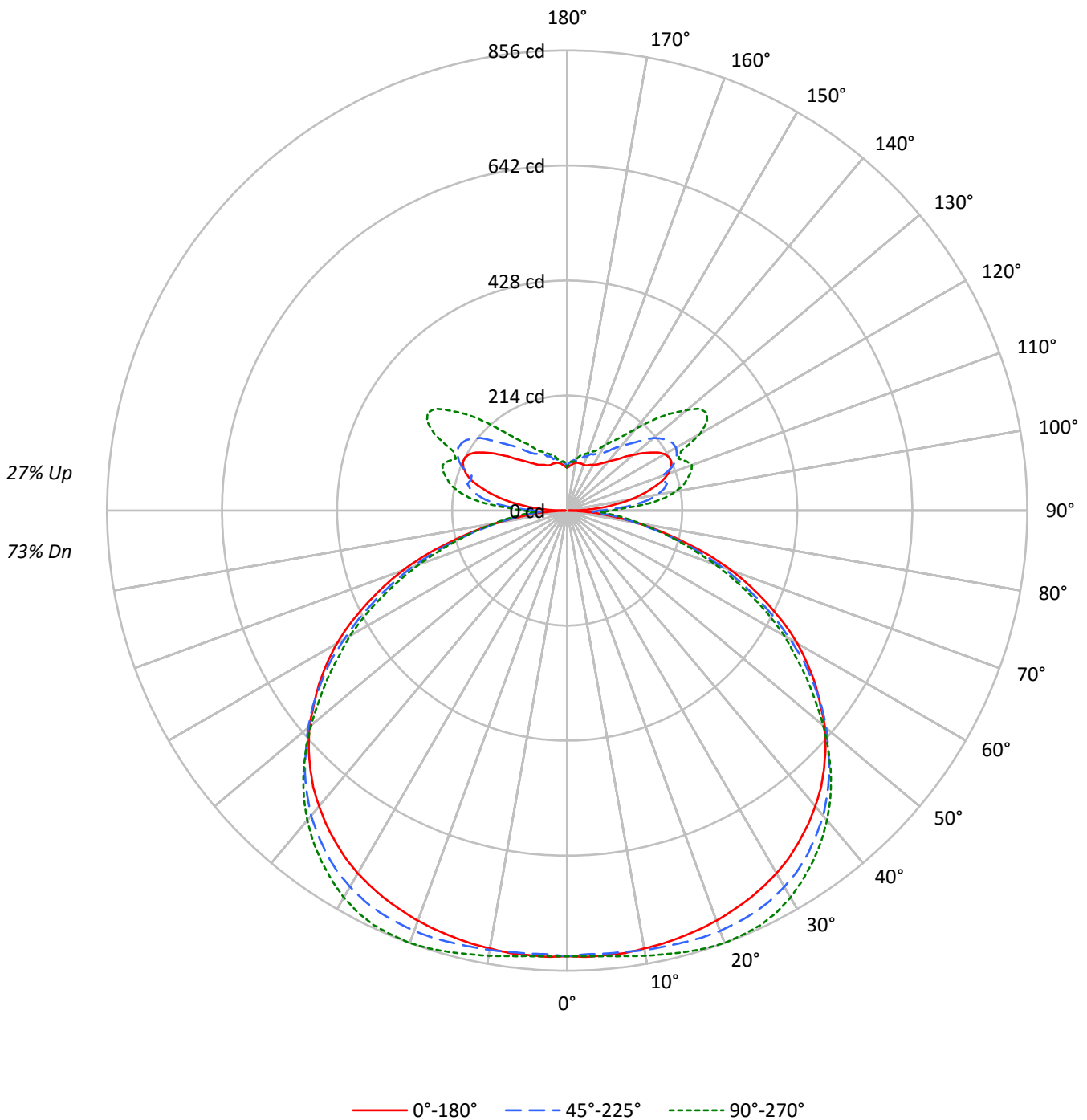
Input Watts (W): 30
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	77	77	77	73
1	102	97	93	89	97	92	89	85	83	80	78	75	73	70	67	65	64	60
2	93	84	78	72	87	80	74	69	72	67	63	65	61	58	58	55	53	49
3	84	74	66	59	79	70	63	57	63	57	52	57	52	48	51	47	44	41
4	77	65	56	50	72	62	54	48	56	49	44	50	45	41	45	41	37	34
5	70	58	49	42	66	55	47	41	50	43	38	45	39	35	40	36	32	29
6	65	52	43	36	61	49	41	35	45	38	33	40	35	30	36	32	28	26
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	33	27	37	30	25	33	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°	2793	2793	2793
5°	2807	2797	2814
10°	2830	2840	2878
15°	2864	2902	2965
20°	2912	2983	3069
25°	2967	3067	3164
30°	3031	3144	3233
35°	3093	3209	3278
40°	3158	3259	3308
45°	3221	3288	3307
50°	3282	3297	3261
55°	3313	3284	3196
60°	3336	3228	3147
65°	3285	3133	3030
70°	3202	3015	2887
75°	2929	2773	2721
80°	2561	2503	2658
85°	1933	2668	3170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	2.0
10°-20°	236.5	5.9
20°-30°	380.7	9.5
30°-40°	486.6	12.2
40°-50°	530.1	13.3
50°-60°	497.2	12.4
60°-70°	390.7	9.8
70°-80°	229.1	5.7
80°-90°	82.0	2.1
90°-100°	124.9	3.1
100°-110°	201.6	5.0
110°-120°	220.0	5.5
120°-130°	213.8	5.4
130°-140°	146.0	3.7
140°-150°	87.3	2.2
150°-160°	52.4	1.3
160°-170°	28.6	0.7
170°-180°	8.7	0.2
0°-30°	696.5	17.4
0°-40°	1183.1	29.6
0°-60°	2210.3	55.3
0°-90°	2912.1	72.9
90°-120°	546.5	13.7
90°-150°	993.6	24.9
90°-180°	1083.0	27.1
0°-180°	3995.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	830	830	827	832	832	79
15°	821	825	832	846	850	232
25°	798	807	825	844	851	368
35°	752	762	780	795	797	471
45°	676	683	690	695	694	522
55°	564	564	559	550	544	503
65°	412	407	393	385	380	407
75°	225	223	213	208	209	239
85°	50	54	69	79	82	58
90°	3	36	61	77	82	8
95°	66	96	127	147	153	65
105°	166	160	192	223	232	174
115°	214	206	223	220	228	209
125°	188	200	229	287	317	169
135°	136	153	180	222	247	107
145°	106	122	136	156	162	67
155°	93	104	115	120	122	43
165°	91	97	99	104	108	26
175°	85	92	90	91	92	8
180°	80	80	80	80	80	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	829	829	829	829	829
2.5°	831	830	826	830	830
5°	830	830	827	832	832
7.5°	830	830	828	835	836
10°	827	829	830	839	841
12.5°	825	827	831	842	845
15°	821	825	832	846	850
17.5°	817	823	833	849	854
20°	812	819	832	850	856
22.5°	805	813	829	848	854
25°	798	807	825	844	851
27.5°	789	799	818	837	843
30°	779	789	808	826	831
32.5°	767	778	796	812	815
35°	752	762	780	795	797
37.5°	736	746	761	772	776
40°	718	728	741	749	752
42.5°	699	707	716	723	725
45°	676	683	690	695	694
47.5°	652	656	659	663	659
50°	626	629	629	627	622
52.5°	594	597	596	591	582
55°	564	564	559	550	544
57.5°	530	529	522	509	503
60°	495	490	479	469	467
62.5°	455	448	437	428	425
65°	412	407	393	385	380
67.5°	369	364	349	342	336
70°	325	317	306	298	293
72.5°	277	270	260	252	249
75°	225	223	213	208	209
77.5°	177	177	168	170	172
80°	132	131	129	134	137
82.5°	86	89	96	105	109
85°	50	54	69	79	82
87.5°	20	31	47	57	62
90°	3	36	61	77	82
92.5°	35	67	90	102	108
95°	66	96	127	147	153
97.5°	94	117	153	178	184
100°	121	127	170	197	205
102.5°	145	143	184	212	222
105°	166	160	192	223	232
107.5°	186	176	188	231	242
110°	200	190	189	232	247



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	209	200	211	221	240
115°	214	206	223	220	228
117.5°	214	209	230	254	239
120°	210	211	234	281	285
122.5°	201	208	233	290	309
125°	188	200	229	287	317
127.5°	175	189	220	278	311
130°	161	178	210	262	291
132.5°	149	166	194	242	269
135°	136	153	180	222	247
137.5°	127	145	167	203	222
140°	119	138	157	182	198
142.5°	112	129	147	165	178
145°	106	122	136	156	162
147.5°	101	118	128	145	151
150°	98	112	122	135	141
152.5°	96	106	119	127	130
155°	93	104	115	120	122
157.5°	91	103	114	114	118
160°	90	99	107	114	114
162.5°	91	96	106	112	110
165°	91	97	99	104	108
167.5°	91	95	100	101	103
170°	90	91	93	99	96
172.5°	88	91	95	93	91
175°	85	92	90	91	92
177.5°	82	85	89	90	90
180°	80	80	80	80	80

(END OF REPORT)