

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: P35726

Luminaire Tested: **DSI-WS-50L835-1D-UNV-4-STD-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35726
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WS-50L835-1D-UNV-4-STD-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream SPECULAR OPTIC, LIGHT LEVEL 4.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5039.4 lumens
Efficiency: N/A
Efficacy: 133.3 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

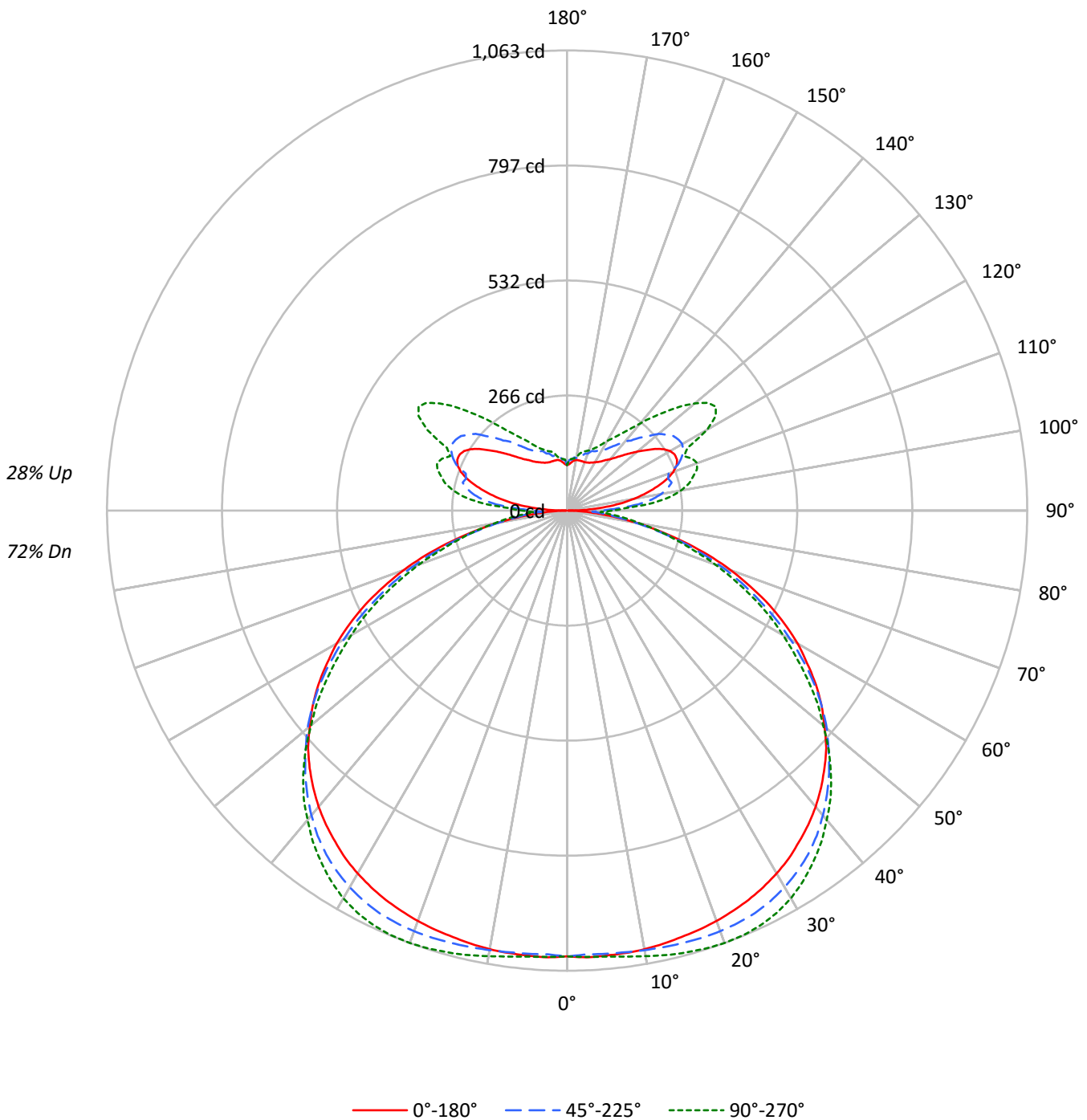
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	72	
1	102	97	93	89	96	92	88	85	83	80	77	74	72	70	66	65	63	63	63	63	59	
2	92	84	77	72	87	80	74	69	72	67	63	64	61	57	58	55	52	52	52	52	48	
3	84	73	65	59	79	70	63	57	63	57	52	56	52	48	50	47	44	44	44	44	40	
4	76	65	56	50	72	62	54	48	55	49	44	50	45	40	45	40	37	37	37	37	34	
5	70	57	49	42	66	55	47	41	49	43	38	45	39	35	40	35	32	32	32	32	29	
6	64	51	43	36	61	49	41	35	44	38	33	40	34	30	36	31	28	28	28	28	25	
7	60	46	38	32	56	44	36	31	40	33	29	36	31	27	33	28	24	24	24	24	22	
8	55	42	34	28	52	40	32	27	37	30	25	33	28	23	30	25	22	22	22	22	20	
9	51	38	30	25	49	37	29	24	33	27	23	30	25	21	28	23	19	19	19	19	17	
10	48	35	27	22	45	34	26	22	31	25	20	28	23	19	25	21	18	18	18	18	16	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3471	3471	3471
5°	3491	3477	3497
10°	3521	3528	3576
15°	3558	3607	3687
20°	3618	3708	3812
25°	3688	3815	3930
30°	3766	3910	4023
35°	3842	3990	4076
40°	3928	4042	4104
45°	4008	4079	4108
50°	4068	4105	4047
55°	4124	4095	3977
60°	4145	4017	3882
65°	4106	3899	3763
70°	3960	3754	3586
75°	3632	3476	3372
80°	3144	3105	3299
85°	2320	3364	3905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	2.0
10°-20°	293.9	5.8
20°-30°	473.3	9.4
30°-40°	604.9	12.0
40°-50°	658.8	13.1
50°-60°	618.3	12.3
60°-70°	486.3	9.6
70°-80°	285.2	5.7
80°-90°	102.2	2.0
90°-100°	161.0	3.2
100°-110°	262.1	5.2
110°-120°	288.2	5.7
120°-130°	281.1	5.6
130°-140°	192.5	3.8
140°-150°	115.2	2.3
150°-160°	68.8	1.4
160°-170°	37.5	0.7
170°-180°	11.4	0.2
0°-30°	865.9	17.2
0°-40°	1470.8	29.2
0°-60°	2747.9	54.5
0°-90°	3621.6	71.9
90°-120°	711.2	14.1
90°-150°	1300.1	25.8
90°-180°	1418.0	28.1
0°-180°	5039.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1032	1032	1028	1034	1034	98
15°	1020	1026	1034	1052	1057	289
25°	992	1003	1026	1050	1057	458
35°	934	948	970	987	991	585
45°	841	849	856	864	862	648
55°	702	701	697	684	677	626
65°	515	506	489	480	472	507
75°	279	278	267	261	259	296
85°	60	67	87	98	101	71
90°	2	45	78	100	104	10
95°	83	123	165	191	197	83
105°	216	209	250	290	301	225
115°	280	270	292	289	298	273
125°	248	263	300	378	419	221
135°	180	202	238	294	323	141
145°	139	160	180	204	216	88
155°	122	136	151	157	161	57
165°	119	126	130	137	141	34
175°	112	120	118	120	120	11
180°	105	105	105	105	105	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030	1030	1030	1030	1030
2.5°	1033	1032	1026	1032	1032
5°	1032	1032	1028	1034	1034
7.5°	1031	1031	1029	1038	1039
10°	1029	1030	1031	1043	1045
12.5°	1025	1028	1033	1048	1052
15°	1020	1026	1034	1052	1057
17.5°	1015	1022	1035	1055	1061
20°	1009	1018	1034	1056	1063
22.5°	1001	1011	1031	1055	1062
25°	992	1003	1026	1050	1057
27.5°	981	993	1017	1041	1048
30°	968	981	1005	1027	1034
32.5°	953	966	989	1010	1015
35°	934	948	970	987	991
37.5°	915	928	947	962	965
40°	893	904	919	932	933
42.5°	868	880	889	899	901
45°	841	849	856	864	862
47.5°	812	816	819	823	820
50°	776	781	783	781	772
52.5°	741	743	741	732	728
55°	702	701	697	684	677
57.5°	658	657	647	635	626
60°	615	611	596	583	576
62.5°	566	558	544	533	527
65°	515	506	489	480	472
67.5°	458	456	435	425	417
70°	402	394	381	370	364
72.5°	342	337	323	313	308
75°	279	278	267	261	259
77.5°	219	221	208	214	215
80°	162	163	160	169	170
82.5°	107	110	118	132	136
85°	60	67	87	98	101
87.5°	26	39	58	72	77
90°	2	45	78	100	104
92.5°	44	87	117	128	136
95°	83	123	165	191	197
97.5°	123	151	197	229	239
100°	157	164	221	257	267
102.5°	187	185	238	275	288
105°	216	209	250	290	301
107.5°	242	229	245	300	314
110°	261	248	249	302	320



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	274	261	277	288	313
115°	280	270	292	289	298
117.5°	280	274	302	335	313
120°	275	276	307	369	373
122.5°	264	274	305	382	407
125°	248	263	300	378	419
127.5°	229	249	288	366	409
130°	212	234	276	347	385
132.5°	195	219	255	319	357
135°	180	202	238	294	323
137.5°	166	190	220	268	293
140°	155	182	208	242	263
142.5°	147	170	193	220	236
145°	139	160	180	204	216
147.5°	133	154	168	191	199
150°	129	148	160	179	186
152.5°	125	139	156	169	172
155°	122	136	151	157	161
157.5°	120	135	149	150	154
160°	119	129	140	150	148
162.5°	119	126	138	147	144
165°	119	126	130	137	141
167.5°	119	124	130	133	135
170°	119	120	123	130	126
172.5°	116	119	124	122	121
175°	112	120	118	120	120
177.5°	107	112	117	118	118
180°	105	105	105	105	105

(END OF REPORT)