

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: METALUX

Report Number: P730355

Luminaire Tested: **HBLED-LD5-12SE-W-FLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-FLI-UNV-L835
Description: 12000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10542.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

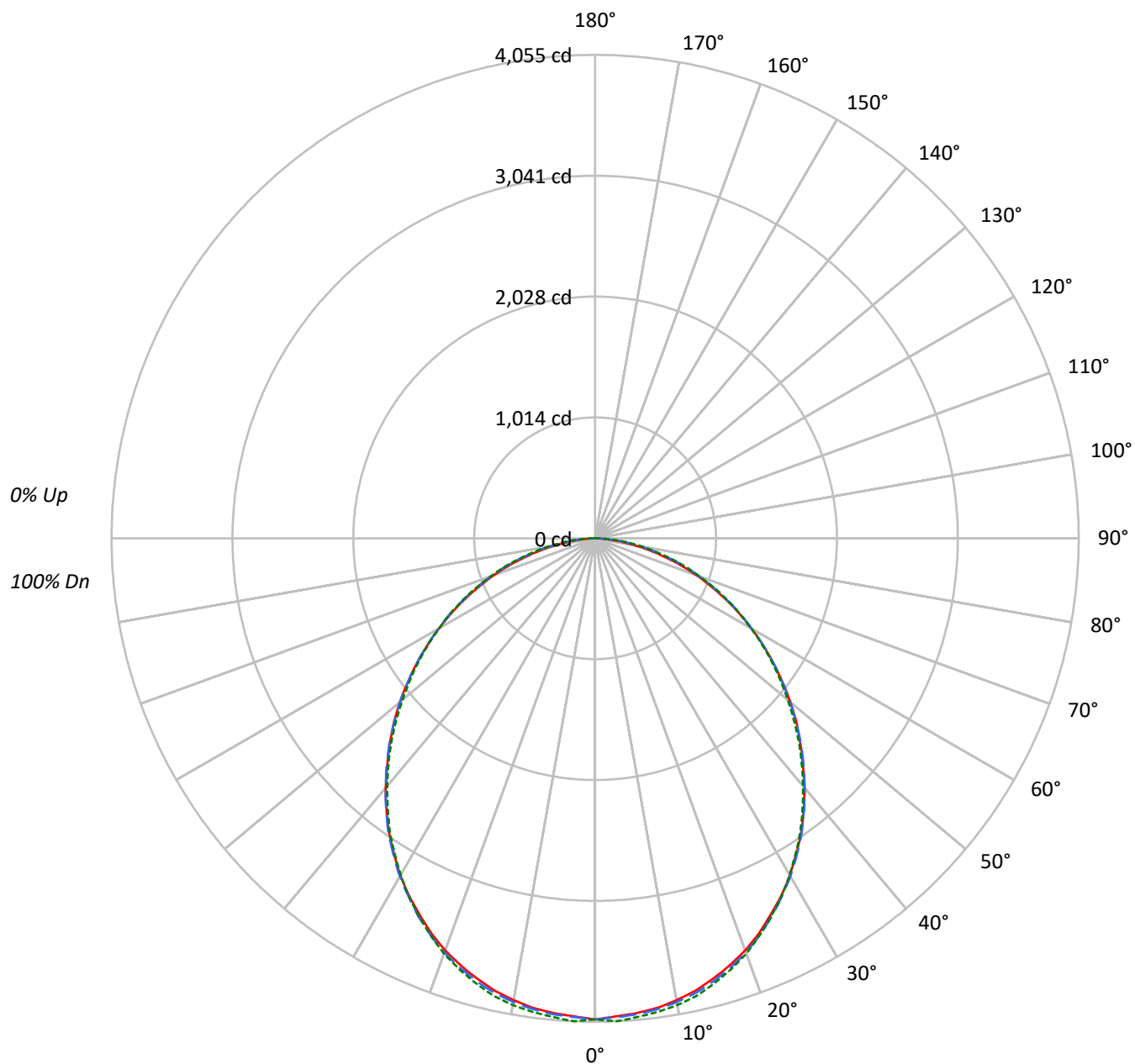
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6516	6516	6516
5°	6479	6497	6534
10°	6450	6476	6518
15°	6393	6428	6459
20°	6321	6351	6369
25°	6204	6239	6230
30°	6089	6105	6081
35°	5938	5954	5916
40°	5760	5760	5716
45°	5558	5574	5517
50°	5367	5358	5291
55°	5135	5136	5090
60°	4886	4892	4873
65°	4606	4651	4663
70°	4254	4370	4375
75°	3759	4002	4065
80°	3083	3505	3703
85°	2140	2944	3327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.7	3.6
10°-20°	1085.8	10.3
20°-30°	1613.6	15.3
30°-40°	1886.7	17.9
40°-50°	1881.1	17.8
50°-60°	1632.1	15.5
60°-70°	1205.5	11.4
70°-80°	674.9	6.4
80°-90°	180.1	1.7
90°-100°	0.5	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°	3081.1	29.2
0°-40°	4967.8	47.1
0°-60°	8480.9	80.4
0°-90°	10541.5	100.0
90°-120°	0.5	0.0
90°-150°	0.5	0.0
90°-180°	1.0	0.0
0°-180°	10542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4036	4036	4036	4036	4036	
5°	3998	4023	4009	4026	4032	380
15°	3825	3851	3845	3864	3864	1079
25°	3482	3510	3502	3510	3497	1605
35°	3013	3039	3020	3020	3001	1882
45°	2434	2460	2441	2431	2416	1879
55°	1824	1837	1824	1821	1808	1631
65°	1206	1217	1218	1224	1221	1192
75°	603	621	642	646	652	642
85°	116	140	159	173	180	140
90°	0	3	3	7	6	5
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4035.8	4035.8	4035.8	4035.8	4035.8
2.5°	4013.7	4037.6	4020.9	4036.8	4055.3
5°	3997.5	4022.7	4008.8	4026.5	4031.7
7.5°	3973.9	3998.3	3985.0	4002.7	4008.1
10°	3933.9	3960.3	3949.8	3969.8	3975.5
12.5°	3887.2	3912.1	3905.1	3928.5	3932.3
15°	3824.6	3851.3	3845.3	3863.8	3864.1
17.5°	3755.3	3780.4	3776.0	3790.4	3789.9
20°	3678.6	3705.5	3696.3	3711.9	3707.0
22.5°	3587.7	3616.4	3604.9	3618.0	3605.6
25°	3482.2	3510.2	3502.0	3509.6	3496.8
27.5°	3380.0	3405.7	3388.7	3398.0	3384.4
30°	3266.1	3287.9	3274.8	3277.9	3261.5
32.5°	3138.0	3163.9	3148.0	3147.5	3130.1
35°	3012.8	3039.2	3020.5	3020.0	3001.3
37.5°	2874.2	2898.8	2876.8	2878.0	2856.2
40°	2732.8	2754.1	2732.8	2731.7	2711.8
42.5°	2579.3	2607.5	2588.0	2590.3	2563.7
45°	2434.3	2460.2	2441.0	2431.0	2416.1
47.5°	2289.8	2301.1	2285.2	2282.6	2261.6
50°	2136.8	2145.3	2133.2	2130.2	2106.6
52.5°	1978.8	1993.4	1978.0	1973.9	1958.2
55°	1824.2	1836.8	1824.5	1821.4	1808.1
57.5°	1668.7	1685.2	1672.6	1669.5	1658.7
60°	1513.2	1518.1	1515.0	1519.6	1509.1
62.5°	1358.7	1370.0	1373.6	1372.3	1364.1
65°	1205.5	1217.3	1217.5	1223.7	1220.6
67.5°	1048.7	1064.0	1068.4	1074.8	1077.6
70°	901.1	912.9	925.7	929.6	926.7
72.5°	752.5	771.5	785.9	789.2	801.2
75°	602.6	620.6	641.6	646.2	651.6
77.5°	463.5	487.4	506.4	512.5	519.2
80°	331.6	358.0	377.0	385.5	398.3
82.5°	217.6	244.6	263.8	272.3	288.0
85°	115.5	139.6	158.9	173.0	179.6
87.5°	34.1	54.7	65.7	69.8	75.7
90°	0.0	2.6	3.1	6.9	6.4
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)