

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: P730284

Luminaire Tested: **HBLED-LD5-12HE-W-FLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730284
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-LD5-12HE-W-FLI-UNV-L840
Description: 12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11075.0 lumens
Efficiency: N/A
Efficacy: 152.3 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

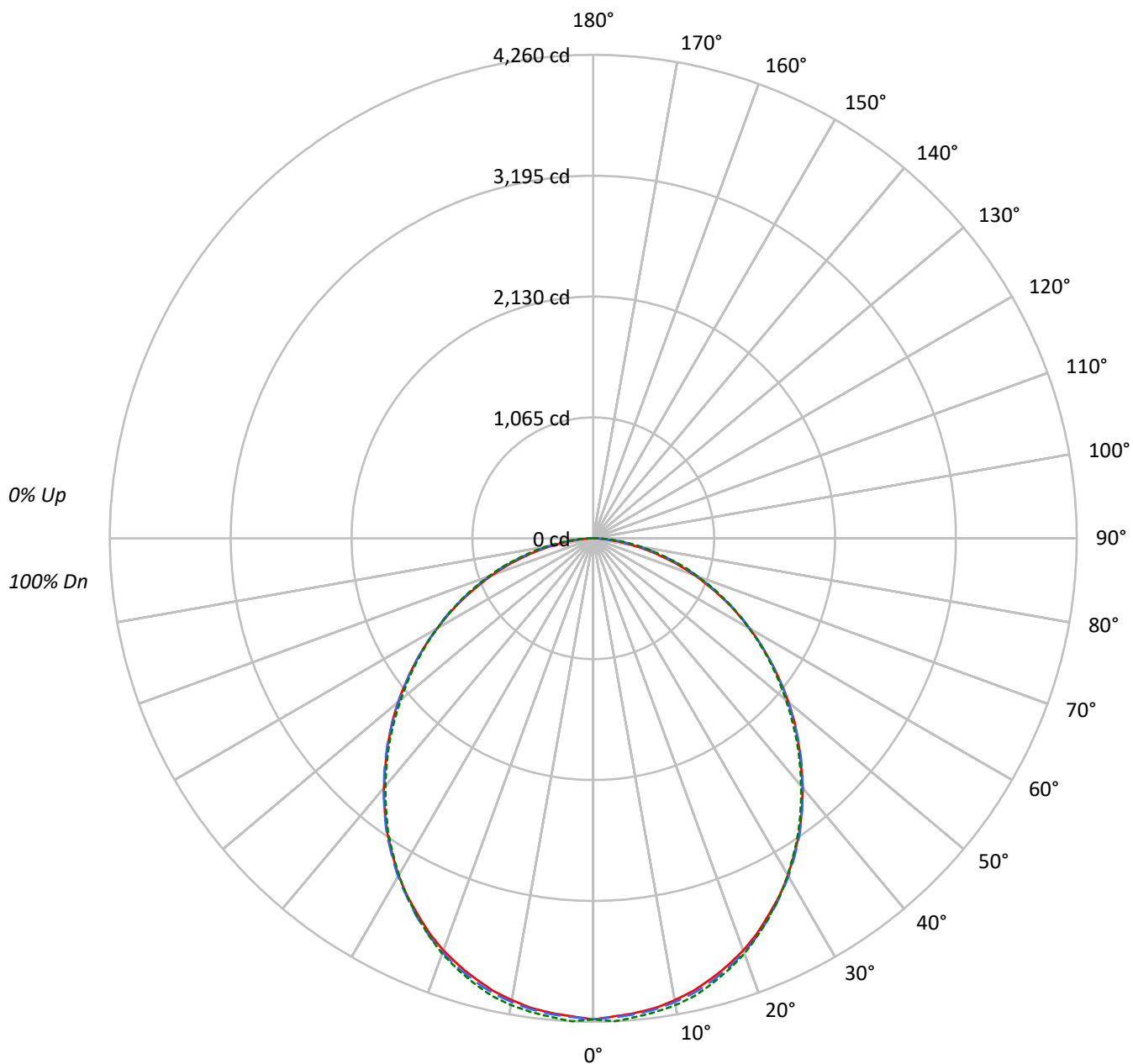
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6846	6846	6846
5°	6807	6826	6865
10°	6776	6803	6847
15°	6716	6753	6786
20°	6640	6672	6691
25°	6517	6554	6545
30°	6397	6414	6388
35°	6239	6255	6215
40°	6051	6051	6005
45°	5839	5855	5796
50°	5639	5629	5559
55°	5395	5395	5347
60°	5133	5140	5120
65°	4838	4887	4899
70°	4469	4591	4596
75°	3949	4205	4271
80°	3239	3683	3891
85°	2247	3092	3496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.0	3.6
10°-20°	1140.7	10.3
20°-30°	1695.2	15.3
30°-40°	1982.1	17.9
40°-50°	1976.2	17.8
50°-60°	1714.6	15.5
60°-70°	1266.4	11.4
70°-80°	709.1	6.4
80°-90°	189.2	1.7
90°-100°	0.6	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°	3236.9	29.2
0°-40°	5218.9	47.1
0°-60°	8909.8	80.4
0°-90°	11074.5	100.0
90°-120°	0.6	0.0
90°-150°	0.6	0.0
90°-180°	1.0	0.0
0°-180°	11075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4240	4240	4240	4240	4240	
5°	4200	4226	4212	4230	4236	399
15°	4018	4046	4040	4059	4060	1133
25°	3658	3688	3679	3687	3674	1687
35°	3165	3193	3173	3173	3153	1977
45°	2557	2585	2564	2554	2538	1974
55°	1916	1930	1917	1914	1900	1714
65°	1266	1279	1279	1286	1282	1252
75°	633	652	674	679	685	674
85°	121	147	167	182	189	147
90°	0	3	3	7	7	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°	4239.8	4239.8	4239.8	4239.8	4239.8
2.5°	4216.6	4241.7	4224.2	4240.9	4260.3
5°	4199.7	4226.1	4211.5	4230.1	4235.5
7.5°	4174.9	4200.5	4186.5	4205.1	4210.7
10°	4132.8	4160.6	4149.5	4170.6	4176.5
12.5°	4083.7	4109.9	4102.6	4127.1	4131.2
15°	4017.9	4046.0	4039.8	4059.2	4059.5
17.5°	3945.1	3971.5	3967.0	3982.1	3981.5
20°	3864.5	3892.8	3883.1	3899.6	3894.4
22.5°	3769.1	3799.3	3787.1	3800.9	3787.9
25°	3658.2	3687.7	3679.0	3687.1	3673.6
27.5°	3550.9	3577.9	3560.1	3569.8	3555.5
30°	3431.2	3454.1	3440.4	3443.6	3426.4
32.5°	3296.7	3323.9	3307.2	3306.7	3288.3
35°	3165.1	3192.9	3173.2	3172.6	3153.0
37.5°	3019.5	3045.4	3022.2	3023.6	3000.6
40°	2870.9	2893.3	2870.9	2869.9	2848.9
42.5°	2709.7	2739.4	2718.9	2721.3	2693.3
45°	2557.4	2584.6	2564.4	2553.9	2538.2
47.5°	2405.6	2417.5	2400.7	2398.0	2375.9
50°	2244.9	2253.8	2241.1	2237.9	2213.1
52.5°	2078.8	2094.2	2078.0	2073.7	2057.2
55°	1916.5	1929.7	1916.7	1913.5	1899.5
57.5°	1753.1	1770.4	1757.2	1753.9	1742.6
60°	1589.7	1594.8	1591.6	1596.4	1585.4
62.5°	1427.4	1439.2	1443.0	1441.7	1433.1
65°	1266.4	1278.8	1279.1	1285.6	1282.3
67.5°	1101.7	1117.8	1122.5	1129.2	1132.1
70°	946.6	959.0	972.6	976.6	973.6
72.5°	790.5	810.5	825.6	829.1	841.8
75°	633.1	651.9	674.1	678.9	684.6
77.5°	487.0	512.0	532.0	538.4	545.5
80°	348.4	376.1	396.1	405.0	418.5
82.5°	228.6	257.0	277.2	286.1	302.5
85°	121.3	146.7	166.9	181.7	188.7
87.5°	35.9	57.4	69.0	73.3	79.6
90°	0.0	2.7	3.2	7.3	6.8
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)