

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: P730970

Luminaire Tested: **HBLED-LD5-36HE-W-FLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730970
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-LD5-36HE-W-FLI-UNV-L735
Description: 36000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32660.0 lumens
Efficiency: N/A
Efficacy: 155.5 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

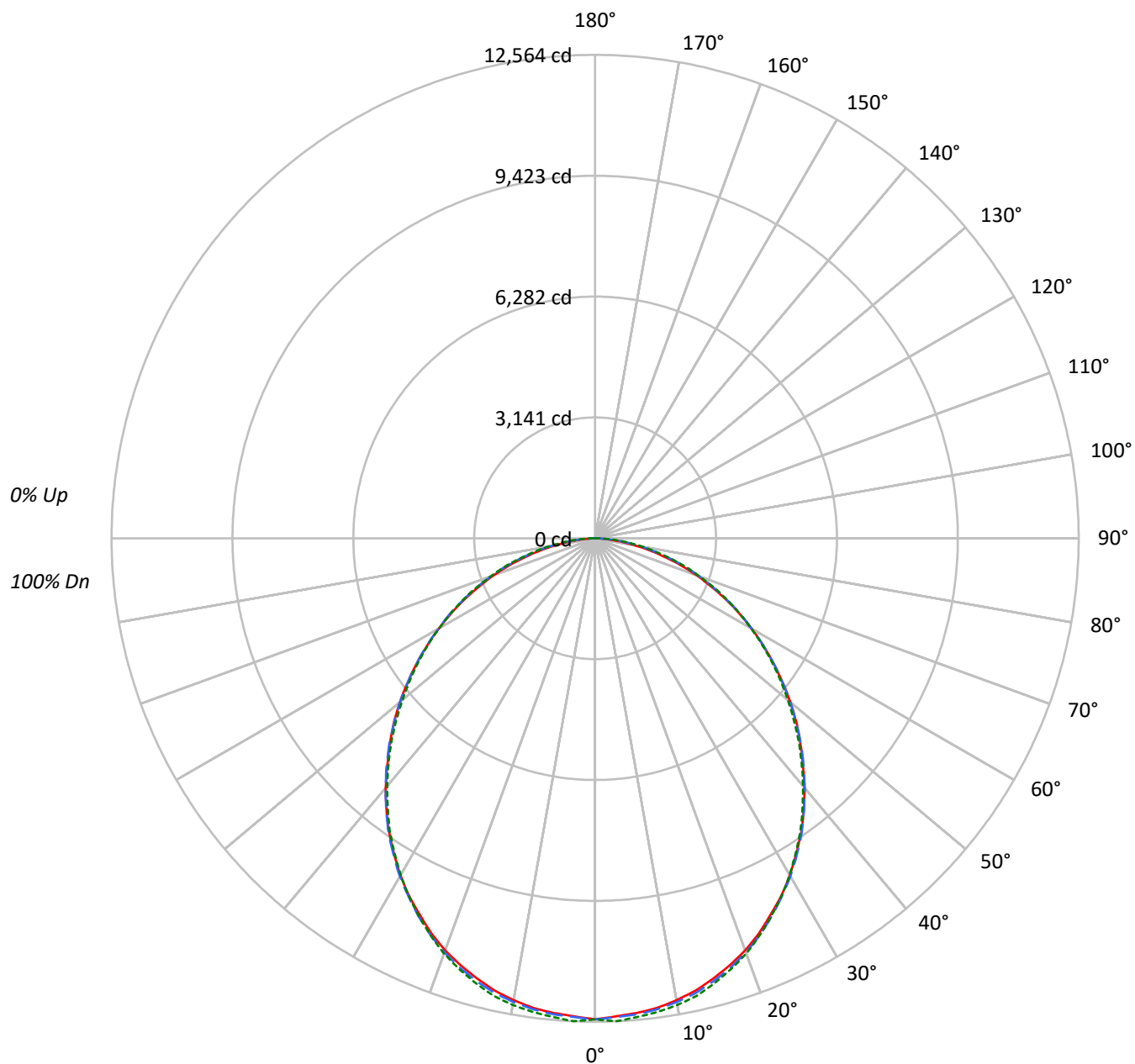
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20188	20188	20188
5°	20073	20129	20244
10°	19981	20062	20193
15°	19806	19913	20011
20°	19582	19676	19733
25°	19219	19328	19300
30°	18865	18915	18838
35°	18398	18445	18327
40°	17845	17845	17707
45°	17221	17268	17091
50°	16629	16601	16393
55°	15909	15911	15768
60°	15139	15156	15098
65°	14268	14411	14447
70°	13178	13539	13554
75°	11646	12400	12594
80°	9552	10860	11474
85°	6628	9118	10311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1182.5	3.6
10°-20°	3363.9	10.3
20°-30°	4999.0	15.3
30°-40°	5845.2	17.9
40°-50°	5827.8	17.8
50°-60°	5056.3	15.5
60°-70°	3734.7	11.4
70°-80°	2091.0	6.4
80°-90°	557.9	1.7
90°-100°	1.7	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°	9545.4	29.2
0°-40°	15390.6	47.1
0°-60°	26274.7	80.4
0°-90°	32658.3	100.0
90°-120°	1.7	0.0
90°-150°	1.7	0.0
90°-180°	2.0	0.0
0°-180°	32660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12503	12503	12503	12503	12503	
5°	12385	12463	12420	12474	12490	###
15°	11849	11932	11913	11970	11971	3342
25°	10788	10875	10849	10873	10834	4974
35°	9334	9416	9358	9356	9298	5830
45°	7542	7622	7562	7531	7485	5822
55°	5652	5691	5652	5643	5602	5054
65°	3735	3771	3772	3791	3782	3694
75°	1867	1922	1988	2002	2019	1988
85°	358	433	492	536	557	435
90°	0	8	10	22	20	14
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°	12503.2	12503.2	12503.2	12503.2	12503.2
2.5°	12434.8	12508.8	12457.0	12506.4	12563.7
5°	12384.7	12462.7	12419.6	12474.5	12490.4
7.5°	12311.6	12387.2	12345.8	12400.6	12417.3
10°	12187.5	12269.5	12236.8	12298.9	12316.4
12.5°	12042.8	12119.9	12098.5	12170.8	12182.7
15°	11848.8	11931.6	11913.2	11970.5	11971.3
17.5°	11634.1	11712.0	11698.5	11743.1	11741.4
20°	11396.5	11479.8	11451.3	11499.7	11484.6
22.5°	11115.0	11204.0	11168.1	11208.7	11170.6
25°	10788.1	10874.8	10849.4	10873.1	10833.5
27.5°	10471.7	10551.2	10498.6	10527.3	10485.1
30°	10118.6	10186.2	10145.7	10155.2	10104.3
32.5°	9721.9	9802.2	9752.8	9751.3	9697.2
35°	9333.9	9415.7	9357.8	9356.1	9298.1
37.5°	8904.5	8980.8	8912.4	8916.4	8848.8
40°	8466.4	8532.4	8466.4	8463.1	8401.2
42.5°	7990.9	8078.4	8018.0	8025.0	7942.4
45°	7541.7	7622.0	7562.4	7531.3	7485.2
47.5°	7094.1	7129.0	7079.7	7071.7	7006.6
50°	6620.1	6646.3	6608.9	6599.4	6526.3
52.5°	6130.4	6175.7	6127.9	6115.2	6066.8
55°	5651.6	5690.6	5652.4	5642.9	5601.5
57.5°	5169.9	5220.7	5181.8	5172.2	5138.9
60°	4688.1	4703.1	4693.6	4707.8	4675.4
62.5°	4209.4	4244.3	4255.5	4251.5	4226.1
65°	3734.6	3771.2	3772.0	3791.2	3781.5
67.5°	3248.8	3296.5	3310.1	3329.9	3338.6
70°	2791.6	2828.2	2868.0	2879.8	2871.1
72.5°	2331.2	2390.1	2434.7	2444.9	2482.3
75°	1866.9	1922.5	1987.8	2002.1	2018.8
77.5°	1436.0	1509.9	1568.7	1587.9	1608.6
80°	1027.3	1109.2	1168.0	1194.2	1234.0
82.5°	674.3	757.8	817.4	843.6	892.2
85°	357.8	432.6	492.2	535.9	556.6
87.5°	105.7	169.3	203.5	216.2	234.6
90°	0.0	8.0	9.5	21.5	19.9
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)