

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: P730974

Luminaire Tested: **HBLED-LD5-36HE-W-FLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730974
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-L840
Description: 36000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32120.0 lumens
Efficiency: N/A
Efficacy: 153.0 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

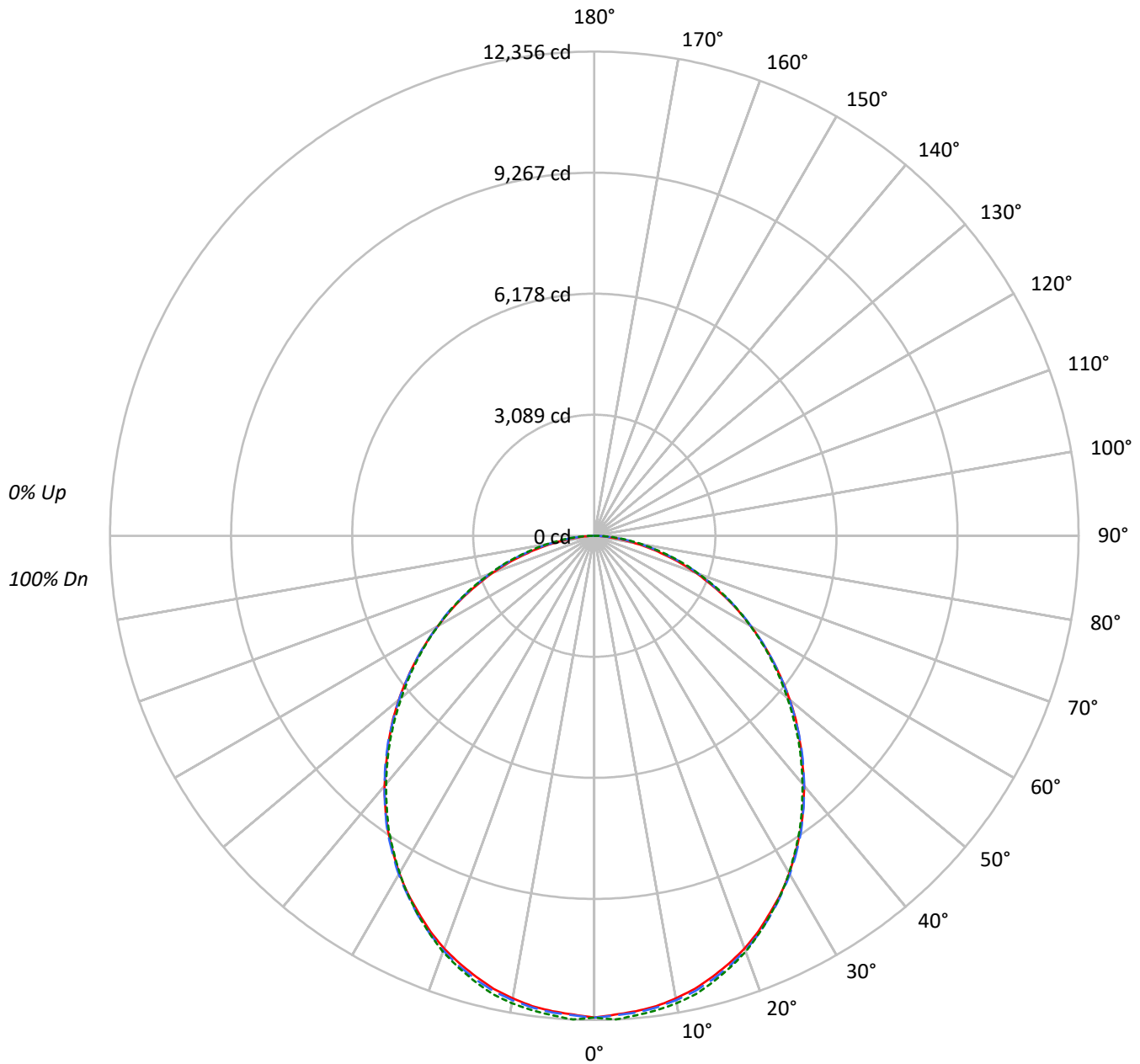
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730974

CATALOG NUMBER: HBLED-LD5-36HE-W-FLI-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P730974

CATALOG NUMBER: HBLED-LD5-36HE-W-FLI-UNV-L840

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°	19854	19854	19854
5°	19741	19796	19909
10°	19651	19731	19859
15°	19478	19584	19680
20°	19258	19350	19407
25°	18901	19009	18981
30°	18553	18603	18527
35°	18093	18140	18024
40°	17550	17550	17414
45°	16936	16982	16809
50°	16354	16326	16122
55°	15646	15648	15507
60°	14888	14906	14848
65°	14032	14172	14208
70°	12960	13315	13329
75°	11454	12196	12385
80°	9394	10681	11284
85°	6519	8968	10141



TEST NUMBER: P730974

CATALOG NUMBER: HBLED-LD5-36HE-W-FLI-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1162.9	3.6
10°-20°	3308.3	10.3
20°-30°	4916.4	15.3
30°-40°	5748.5	17.9
40°-50°	5731.4	17.8
50°-60°	4972.7	15.5
60°-70°	3673.0	11.4
70°-80°	2056.4	6.4
80°-90°	548.7	1.7
90°-100°	1.6	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°	9387.6	29.2
0°-40°	15136.1	47.1
0°-60°	25840.3	80.4
0°-90°	32118.3	100.0
90°-120°	1.6	0.0
90°-150°	1.6	0.0
90°-180°	2.0	0.0
0°-180°	32120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12296	12296	12296	12296	12296	
5°	12180	12257	12214	12268	12284	###
15°	11653	11734	11716	11773	11773	3286
25°	10610	10695	10670	10693	10654	4892
35°	9180	9260	9203	9201	9144	5734
45°	7417	7496	7437	7407	7361	5726
55°	5558	5596	5559	5550	5509	4970
65°	3673	3709	3710	3728	3719	3633
75°	1836	1891	1955	1969	1985	1955
85°	352	425	484	527	547	427
90°	0	8	9	21	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	



TEST NUMBER: P730974

CATALOG NUMBER: HBLED-LD5-36HE-W-FLI-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12296.4	12296.4	12296.4	12296.4	12296.4
2.5°	12229.2	12302.0	12251.1	12299.6	12356.0
5°	12179.9	12256.7	12214.3	12268.3	12283.9
7.5°	12108.1	12182.4	12141.7	12195.6	12212.0
10°	11986.0	12066.6	12034.5	12095.5	12112.7
12.5°	11843.7	11919.5	11898.4	11969.6	11981.3
15°	11652.9	11734.3	11716.2	11772.6	11773.3
17.5°	11441.8	11518.3	11505.1	11548.9	11547.3
20°	11208.0	11290.0	11262.0	11309.6	11294.7
22.5°	10931.2	11018.7	10983.5	11023.4	10985.9
25°	10609.7	10695.0	10670.0	10693.4	10654.3
27.5°	10298.5	10376.7	10325.0	10353.2	10311.8
30°	9951.3	10017.8	9978.0	9987.3	9937.3
32.5°	9561.1	9640.1	9591.6	9590.1	9536.9
35°	9179.5	9260.0	9203.0	9201.4	9144.4
37.5°	8757.2	8832.3	8765.1	8769.0	8702.5
40°	8326.4	8391.3	8326.4	8323.2	8262.3
42.5°	7858.7	7944.8	7885.4	7892.3	7811.1
45°	7417.0	7496.0	7437.4	7406.8	7361.4
47.5°	6976.8	7011.2	6962.6	6954.8	6890.7
50°	6510.7	6536.4	6499.7	6490.3	6418.4
52.5°	6029.0	6073.6	6026.6	6014.1	5966.5
55°	5558.2	5596.5	5559.0	5549.6	5508.9
57.5°	5084.4	5134.4	5096.1	5086.6	5053.9
60°	4610.6	4625.3	4616.0	4630.0	4598.1
62.5°	4139.8	4174.1	4185.1	4181.2	4156.2
65°	3672.9	3708.9	3709.6	3728.5	3719.0
67.5°	3195.1	3242.0	3255.4	3274.9	3283.4
70°	2745.4	2781.4	2820.6	2832.2	2823.6
72.5°	2292.7	2350.6	2394.4	2404.5	2441.3
75°	1836.1	1890.8	1955.0	1969.0	1985.4
77.5°	1412.3	1484.9	1542.8	1561.6	1582.0
80°	1010.3	1090.8	1148.7	1174.5	1213.6
82.5°	663.1	745.2	803.9	829.6	877.4
85°	351.9	425.4	484.1	527.0	547.4
87.5°	104.0	166.5	200.1	212.6	230.7
90°	0.0	7.8	9.3	21.1	19.6
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



TEST NUMBER: P730974

CATALOG NUMBER: HBLED-LD5-36HE-W-FLI-UNV-L840

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)