

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: P730968

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-CLI-UNV-L840
Description: 36000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33603.0 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

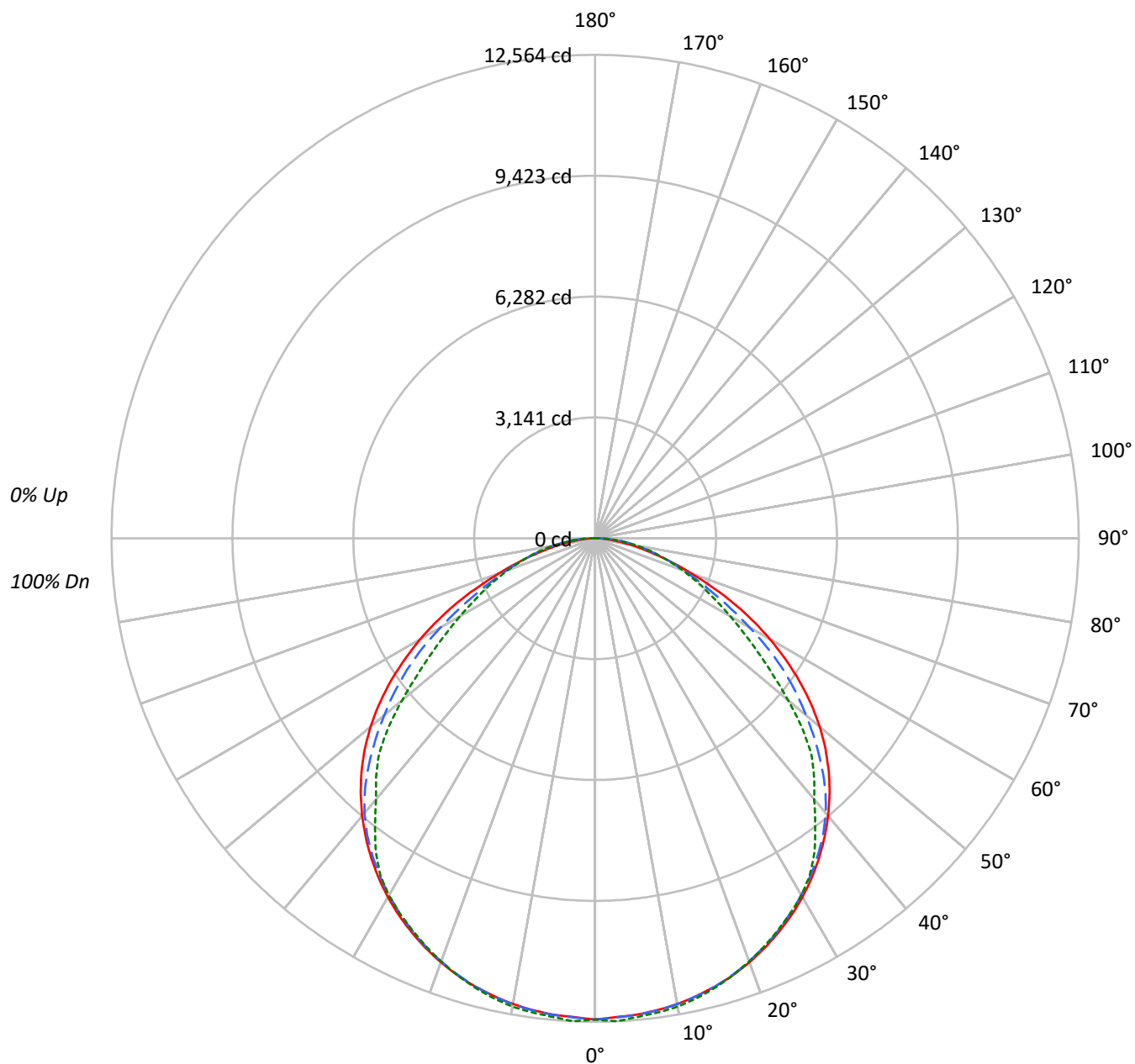
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20194	20194	20194
5°	20140	20154	20244
10°	20151	20161	20267
15°	20154	20151	20199
20°	20149	20102	20107
25°	20118	20043	20019
30°	20085	19965	19976
35°	19991	19867	19586
40°	19849	19646	18655
45°	19597	18969	18140
50°	19125	17960	16429
55°	18254	16797	14527
60°	16941	14987	13100
65°	15058	12975	12047
70°	12496	11596	11355
75°	10107	10613	10744
80°	8028	10150	10108
85°	6286	10904	10402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1186.1	3.5
10°-20°	3411.8	10.2
20°-30°	5202.3	15.5
30°-40°	6294.1	18.7
40°-50°	6375.3	19.0
50°-60°	5269.4	15.7
60°-70°	3480.3	10.4
70°-80°	1814.8	5.4
80°-90°	568.9	1.7
90°-100°	0.0	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°	9800.2	29.2
0°-40°	16094.3	47.9
0°-60°	27739.0	82.5
0°-90°	33603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12507	12507	12507	12507	12507	
5°	12426	12501	12435	12489	12491	###
15°	12057	12118	12055	12093	12084	3405
25°	11293	11338	11251	11279	11237	5207
35°	10142	10156	10079	10066	9937	6344
45°	8582	8560	8308	8049	7944	6609
55°	6485	6389	5967	5387	5161	5780
65°	3941	3827	3396	3176	3153	3893
75°	1620	1649	1701	1724	1722	1765
85°	339	437	589	584	562	412
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12507.2	12507.2	12507.2	12507.2	12507.2
2.5°	12454.7	12528.2	12466.6	12520.7	12564.3
5°	12426.1	12501.3	12435.1	12489.2	12490.7
7.5°	12370.7	12445.7	12378.0	12432.1	12430.6
10°	12291.0	12361.6	12297.0	12361.6	12361.6
12.5°	12183.0	12251.9	12189.0	12248.9	12239.9
15°	12056.9	12118.3	12055.3	12092.9	12083.8
17.5°	11908.2	11963.8	11893.1	11924.6	11906.7
20°	11726.5	11777.5	11699.5	11740.0	11702.4
22.5°	11522.2	11570.2	11490.7	11520.8	11478.7
25°	11292.6	11337.6	11250.6	11279.0	11237.0
27.5°	11044.8	11085.3	10987.7	11022.3	10989.2
30°	10773.0	10792.6	10708.5	10753.6	10714.5
32.5°	10469.7	10481.8	10408.1	10448.6	10382.7
35°	10142.4	10155.9	10079.4	10065.8	9936.7
37.5°	9792.6	9798.6	9726.6	9604.8	9391.7
40°	9417.3	9414.3	9321.2	9040.3	8851.1
42.5°	9016.2	9014.9	8851.1	8531.3	8423.3
45°	8582.4	8559.9	8307.6	8049.4	7944.2
47.5°	8117.0	8092.9	7740.1	7534.4	7295.6
50°	7614.0	7571.9	7150.0	6869.1	6540.4
52.5°	7071.9	7007.3	6577.9	6124.5	5813.7
55°	6484.8	6388.7	5966.9	5387.3	5160.6
57.5°	5873.8	5731.1	5321.2	4756.7	4572.0
60°	5246.2	5086.9	4641.0	4177.1	4056.9
62.5°	4600.5	4442.9	3987.9	3638.1	3572.0
65°	3941.4	3827.2	3396.3	3175.6	3153.2
67.5°	3265.7	3225.2	2896.3	2783.8	2774.7
70°	2647.1	2639.6	2456.4	2399.3	2405.3
72.5°	2115.6	2106.6	2079.6	2051.0	2052.5
75°	1620.1	1648.6	1701.2	1723.6	1722.3
77.5°	1208.7	1267.3	1378.3	1423.4	1415.8
80°	863.4	950.5	1091.6	1133.7	1087.1
82.5°	575.0	666.6	833.3	839.3	801.8
85°	339.3	436.9	588.6	584.1	561.5
87.5°	168.1	262.7	352.8	337.8	322.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)