

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: P730956

Luminaire Tested: **HBLED-LD5-36HE-N-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-N-UNV-L840
Description: 36000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34833.0 lumens
Efficiency: N/A
Efficacy: 165.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

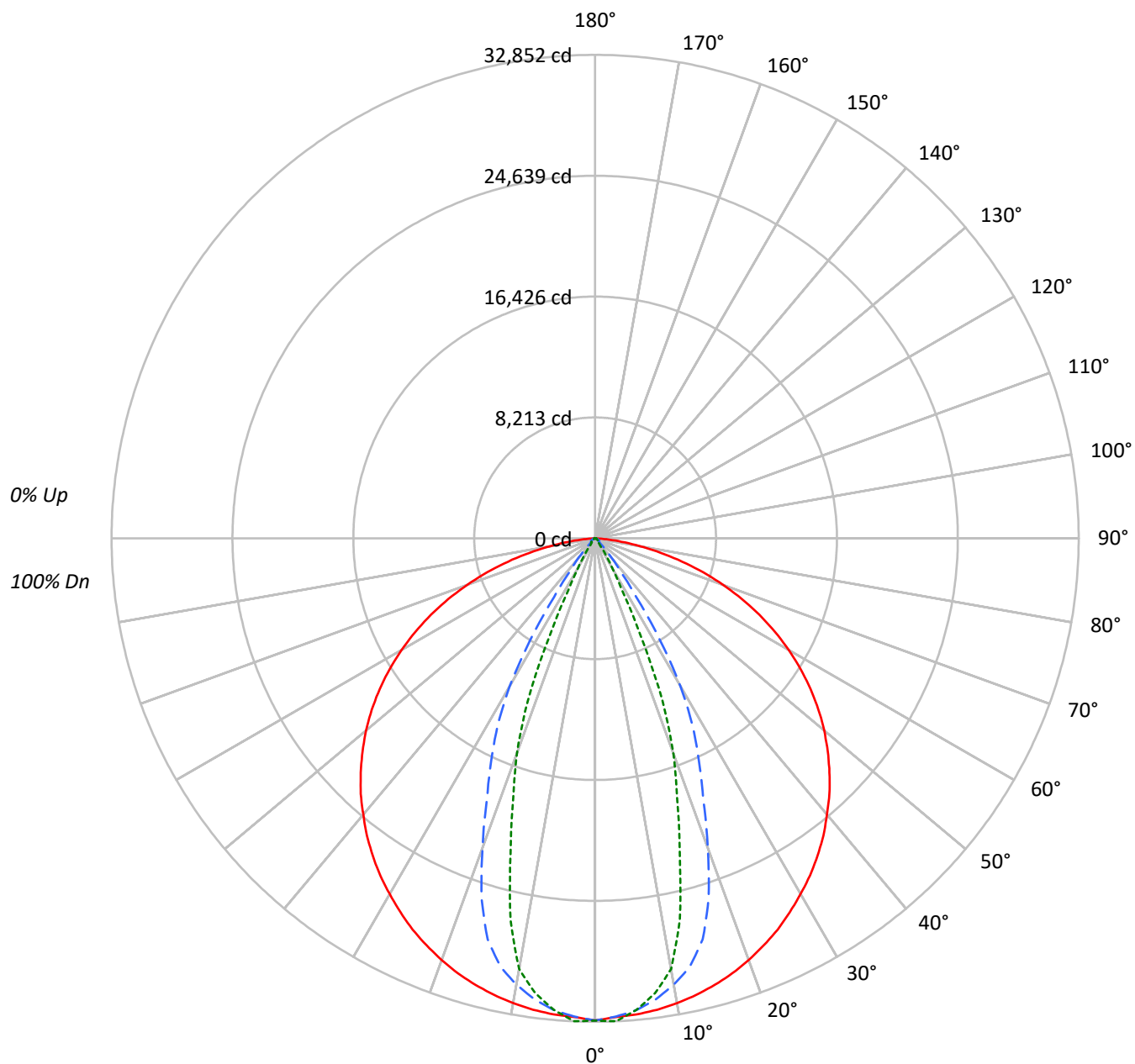
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	58	79	70	63	58	68	62	58		66	61	57		65
7	76	66	58	54	75	65	58	53	63	57	53		62	57	53		61
8	72	61	54	49	71	61	54	49	59	53	49		58	53	49		57
9	68	57	51	46	67	57	50	46	56	50	46		55	49	46		54
10	65	54	47	43	64	53	47	43	53	47	43		52	46	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	52914	52914	52914
5°	52631	52166	52143
10°	52598	50494	48723
15°	52524	47174	37081
20°	52402	38456	26691
25°	52268	29735	13148
30°	52037	21611	4264
35°	51914	9588	1097
40°	51642	3894	739
45°	51411	1093	787
50°	51011	775	873
55°	50276	922	373
60°	49035	1027	227
65°	47018	655	268
70°	43681	582	331
75°	38212	438	457
80°	28571	536	653
85°	14151	693	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3041.3	8.7
10°-20°	7604.9	21.8
20°-30°	8237.2	23.6
30°-40°	6100.0	17.5
40°-50°	4393.6	12.6
50°-60°	2720.5	7.8
60°-70°	1673.0	4.8
70°-80°	882.0	2.5
80°-90°	180.5	0.5
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°	18883.4	54.2
0°-40°	24983.4	71.7
0°-60°	32097.5	92.1
0°-90°	34833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32772	32772	32772	32772	32772	
5°	32473	32593	32186	32210	32172	###
15°	31422	30693	28222	24000	22184	8870
25°	29340	26875	16691	10500	7380	13519
35°	26338	18568	4864	1144	557	16478
45°	22516	10461	479	346	344	17364
55°	17860	2155	327	296	133	15944
65°	12307	228	171	109	70	12143
75°	6125	53	70	92	73	6470
85°	764	20	37	56	47	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32772.5	32772.5	32772.5	32772.5	32772.5
2.5°	32562.0	32769.4	32524.6	32707.1	32852.0
5°	32473.1	32593.2	32186.3	32209.6	32172.3
7.5°	32317.2	32289.2	31604.8	31305.4	31174.5
10°	32081.9	31896.3	30798.8	30173.6	29718.3
12.5°	31777.9	31363.1	29793.2	27805.4	26570.7
15°	31422.3	30692.7	28221.7	23999.9	22183.5
17.5°	30998.3	29964.7	25652.3	20114.6	18493.4
20°	30497.8	29152.4	22381.4	17113.6	15534.3
22.5°	29939.7	28164.0	19204.3	14223.1	11970.3
25°	29339.5	26874.7	16691.0	10500.1	7380.4
27.5°	28645.7	25217.4	14333.8	6184.7	3766.7
30°	27911.5	23221.8	11591.4	3326.9	2287.2
32.5°	27170.9	20959.6	8202.1	2078.2	1297.1
35°	26338.4	18568.1	4864.2	1144.3	556.6
37.5°	25469.9	16376.1	2874.8	520.8	357.0
40°	24501.8	14372.8	1847.4	346.0	350.7
42.5°	23566.5	12505.1	1039.9	341.4	347.7
45°	22515.5	10461.1	478.6	346.0	344.5
47.5°	21428.9	8342.3	310.2	349.2	349.2
50°	20308.1	5964.9	308.7	357.0	347.7
52.5°	19124.7	3721.5	321.2	355.5	285.3
55°	17860.3	2154.6	327.4	296.2	132.6
57.5°	16550.7	1270.6	330.5	169.9	74.9
60°	15185.0	703.1	318.0	126.2	70.2
62.5°	13777.1	335.2	251.0	118.6	68.5
65°	12307.0	227.6	171.4	109.1	70.2
67.5°	10780.7	176.1	135.6	102.9	71.7
70°	9252.9	130.9	123.2	102.9	70.2
72.5°	7700.1	88.9	102.9	104.4	70.2
75°	6125.4	53.0	70.2	92.0	73.2
77.5°	4564.8	32.7	54.5	95.1	88.9
80°	3072.8	28.0	57.7	88.9	70.2
82.5°	1803.9	25.0	56.2	68.5	56.2
85°	763.9	20.3	37.4	56.2	46.7
87.5°	143.4	17.2	29.7	45.2	40.5
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)