

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: P730728

Luminaire Tested: **HBLED-LD5-24HE-W-WG-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-WG-UNV-L840
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23273.0 lumens
Efficiency: N/A
Efficacy: 162.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

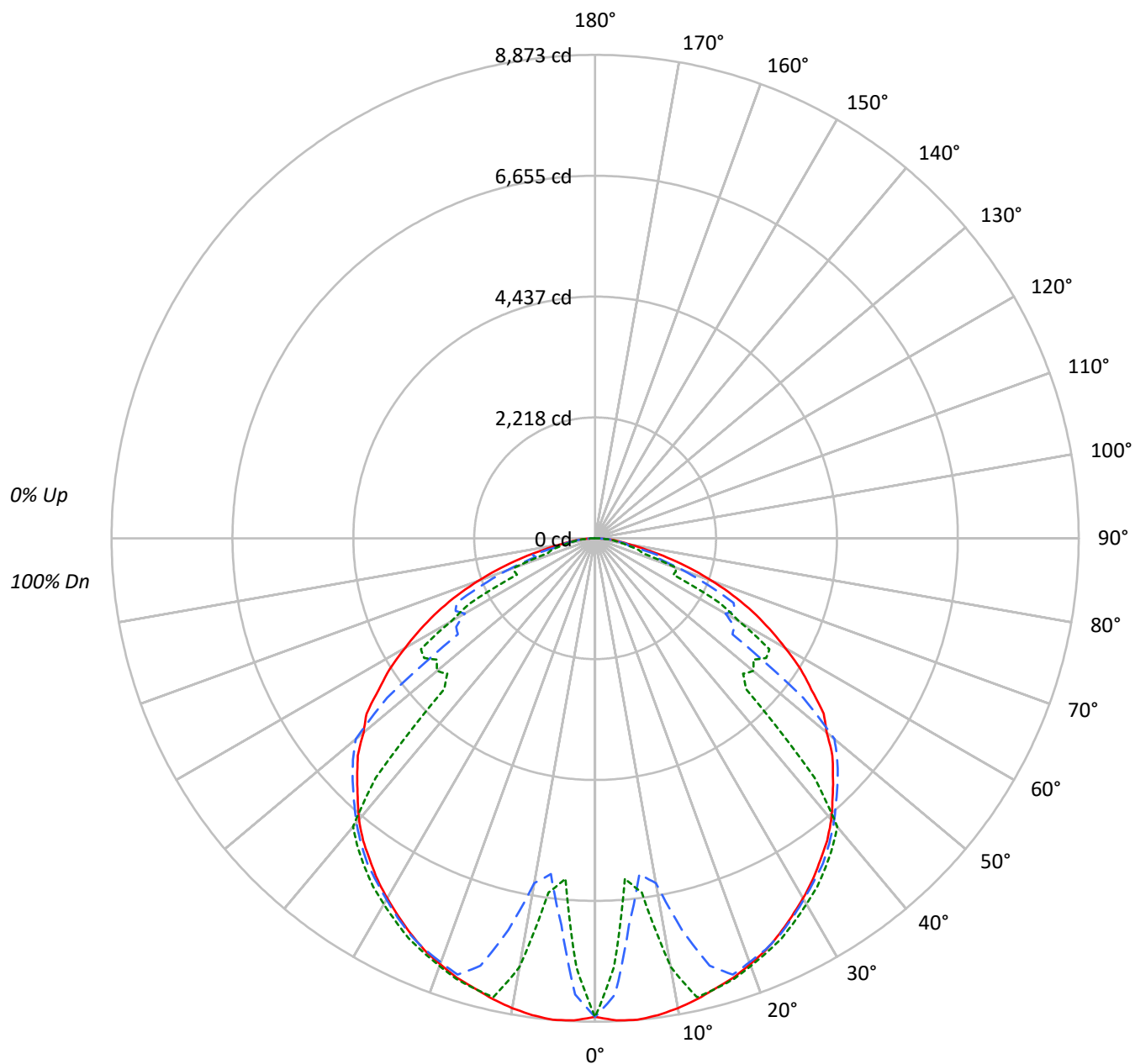
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	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	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14184	14184	14184
5°	14381	11553	10161
10°	14356	10536	13104
15°	14293	13580	14305
20°	14293	14228	14354
25°	14267	14299	14430
30°	14226	14273	14457
35°	14203	14361	14529
40°	14205	14360	14566
45°	14094	14369	8930
50°	13934	14398	9517
55°	13640	8658	10787
60°	13012	8924	9877
65°	12192	10715	6044
70°	10766	8118	7408
75°	8578	7379	5138
80°	5909	5332	4415
85°	5661	4922	4670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.5	3.0
10°-20°	2200.8	9.5
20°-30°	3620.7	15.6
30°-40°	4552.6	19.6
40°-50°	4465.0	19.2
50°-60°	3699.4	15.9
60°-70°	2609.3	11.2
70°-80°	1138.4	4.9
80°-90°	284.4	1.2
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°	6524.0	28.0
0°-40°	11076.5	47.6
0°-60°	19240.9	82.7
0°-90°	23273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8785	8785	8785	8785	8785	
5°	8873	8258	7128	6463	6269	842
15°	8550	5938	8124	8584	8558	2418
25°	8008	7328	8026	8080	8100	3691
35°	7206	7202	7286	7334	7371	4515
45°	6172	6191	6293	5574	3911	4764
55°	4846	5004	3076	3497	3832	4335
65°	3191	3379	2805	2158	1582	3138
75°	1375	1348	1183	773	824	1475
85°	306	272	266	254	252	317
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8784.8	8784.8	8784.8	8784.8	8784.8
2.5°	8857.3	8673.5	8381.4	8013.8	7883.6
5°	8873.0	8258.5	7128.3	6463.4	6269.0
7.5°	8827.9	7505.4	6214.4	6354.0	6560.0
10°	8756.5	6843.6	6426.6	7561.0	7992.8
12.5°	8665.1	6255.4	7362.5	8541.1	8627.2
15°	8550.5	5938.2	8124.1	8584.2	8557.9
17.5°	8453.9	6124.0	8397.2	8498.0	8479.1
20°	8318.4	6494.9	8280.6	8361.5	8354.1
22.5°	8181.8	6933.9	8170.3	8228.1	8228.1
25°	8008.5	7327.9	8026.3	8080.0	8099.9
27.5°	7818.4	7554.7	7846.7	7890.8	7926.6
30°	7630.3	7587.3	7655.6	7712.3	7754.3
32.5°	7431.9	7415.1	7468.6	7528.5	7582.0
35°	7206.0	7201.8	7285.8	7334.1	7371.0
37.5°	6993.8	6979.1	7056.8	7124.1	7152.4
40°	6739.6	6739.6	6813.1	6881.4	6910.9
42.5°	6449.6	6490.7	6547.4	6617.7	5960.2
45°	6172.4	6191.3	6293.1	5573.7	3910.8
47.5°	5905.5	5929.7	6026.4	3583.0	3680.8
50°	5547.4	5656.6	5732.2	3572.6	3789.0
52.5°	5285.8	5333.0	4812.0	3536.9	3658.7
55°	4845.7	5004.2	3075.6	3496.9	3832.0
57.5°	4469.6	4585.2	3024.2	3583.0	3791.0
60°	4029.5	4206.0	2763.6	3457.0	3058.8
62.5°	3607.2	3775.2	2885.6	2720.7	2590.4
65°	3191.2	3379.2	2804.7	2157.6	1581.9
67.5°	2735.3	2560.0	2237.4	1520.0	1599.8
70°	2280.5	1787.9	1719.6	1699.6	1569.3
72.5°	1813.1	1304.6	1141.8	1275.3	912.8
75°	1375.1	1347.7	1182.8	773.1	823.6
77.5°	953.8	972.7	633.4	754.2	626.0
80°	635.5	550.5	573.5	481.1	474.8
82.5°	440.1	449.6	377.1	365.5	370.8
85°	305.6	272.1	265.7	254.3	252.1
87.5°	101.8	118.7	110.3	99.8	106.1
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)