

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: P730775

Luminaire Tested: **HBLED-LD5-24SE-W-CL-WG-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-CL-WG-UNV-L835
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21061.0 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

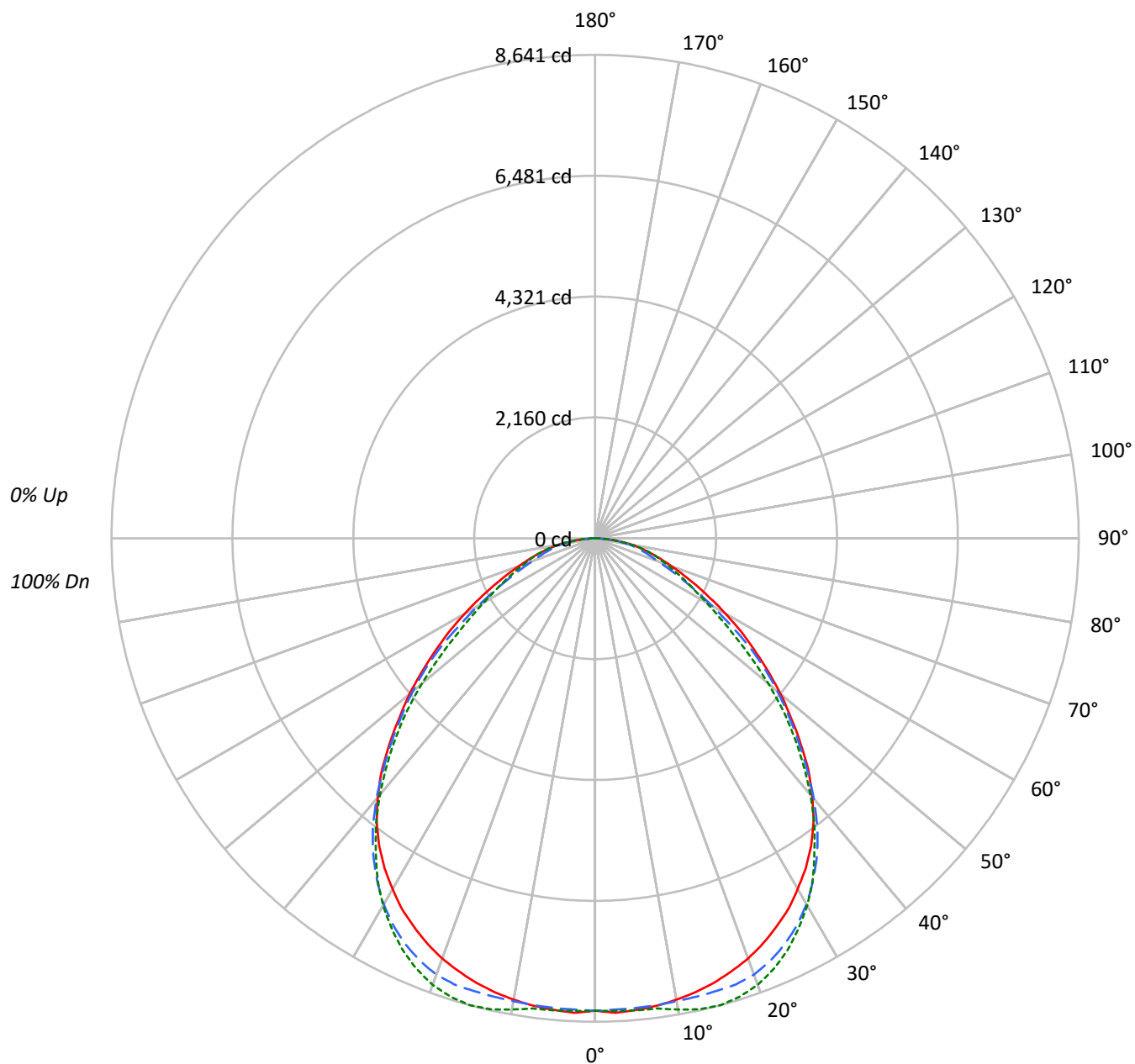
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13635	13635	13635
5°	13715	13659	13726
10°	13727	13774	14020
15°	13745	14003	14444
20°	13735	14259	14592
25°	13651	14272	14482
30°	13494	14083	14128
35°	13254	13627	13464
40°	12731	12809	12607
45°	11862	11738	11499
50°	10860	10686	10138
55°	9755	9393	8572
60°	8652	7772	7399
65°	7623	6458	6716
70°	6818	5604	6396
75°	6386	5449	6468
80°	6218	5509	6156
85°	4963	4359	4518



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.5	3.8
10°-20°	2369.6	11.3
20°-30°	3645.3	17.3
30°-40°	4254.3	20.2
40°-50°	3953.4	18.8
50°-60°	2930.4	13.9
60°-70°	1791.4	8.5
70°-80°	1020.4	4.8
80°-90°	291.8	1.4
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°	6819.4	32.4
0°-40°	11073.6	52.6
0°-60°	17957.4	85.3
0°-90°	21061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8445	8445	8445	8445	8445	
5°	8462	8423	8427	8421	8469	805
15°	8223	8218	8377	8543	8641	2321
25°	7663	7722	8011	8079	8129	3530
35°	6724	6776	6914	6857	6831	4190
45°	5195	5226	5140	5060	5036	4003
55°	3466	3378	3337	3100	3045	3110
65°	1995	1812	1690	1736	1758	1997
75°	1024	961	873	996	1037	1096
85°	268	261	235	244	244	309
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8444.9	8444.9	8444.9	8444.9	8444.9
2.5°	8490.6	8442.7	8433.9	8414.4	8457.9
5°	8462.3	8423.0	8427.4	8420.9	8468.8
7.5°	8429.6	8401.3	8418.7	8416.5	8479.7
10°	8373.0	8357.7	8401.3	8449.2	8551.6
12.5°	8309.8	8294.6	8390.4	8512.3	8623.5
15°	8222.7	8218.3	8377.3	8542.8	8640.9
17.5°	8113.8	8120.3	8362.0	8503.7	8590.8
20°	7994.0	8004.8	8298.9	8414.4	8492.8
22.5°	7839.3	7876.4	8176.9	8272.7	8333.7
25°	7662.9	7721.7	8011.4	8078.9	8129.0
27.5°	7473.4	7532.2	7806.6	7841.5	7869.8
30°	7238.1	7320.9	7553.9	7558.4	7577.9
32.5°	6998.5	7072.6	7251.2	7231.6	7235.9
35°	6724.1	6776.3	6913.5	6857.0	6830.8
37.5°	6408.3	6436.6	6523.6	6438.8	6434.3
40°	6040.1	6077.2	6077.2	5959.6	5981.3
42.5°	5648.1	5661.1	5606.7	5495.6	5513.0
45°	5195.0	5225.5	5140.5	5059.9	5036.0
47.5°	4746.3	4776.8	4687.5	4593.8	4552.5
50°	4323.7	4308.4	4254.1	4095.0	4036.2
52.5°	3885.9	3838.0	3816.2	3583.2	3515.6
55°	3465.5	3378.4	3337.0	3099.5	3045.1
57.5°	3075.6	2918.8	2840.4	2655.3	2633.4
60°	2679.2	2502.7	2406.9	2287.1	2291.4
62.5°	2319.8	2134.6	2019.2	1984.4	1999.6
65°	1995.2	1812.2	1690.3	1736.0	1757.8
67.5°	1701.2	1550.9	1413.7	1520.4	1542.1
70°	1444.2	1324.4	1187.1	1344.0	1354.9
72.5°	1230.6	1132.7	1017.2	1165.3	1189.3
75°	1023.7	960.6	873.4	995.5	1036.8
77.5°	842.9	792.9	742.8	816.9	862.6
80°	668.7	618.6	592.5	631.6	662.1
82.5°	472.7	440.0	413.9	442.2	457.5
85°	267.9	261.3	235.3	243.9	243.9
87.5°	61.0	69.7	78.4	71.9	61.0
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)