

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: P730778

Luminaire Tested: **HBLED-LD5-24SE-W-CLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730778
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-LD5-24SE-W-CLI-UNV-L735
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23075.0 lumens
Efficiency: N/A
Efficacy: 153.8 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

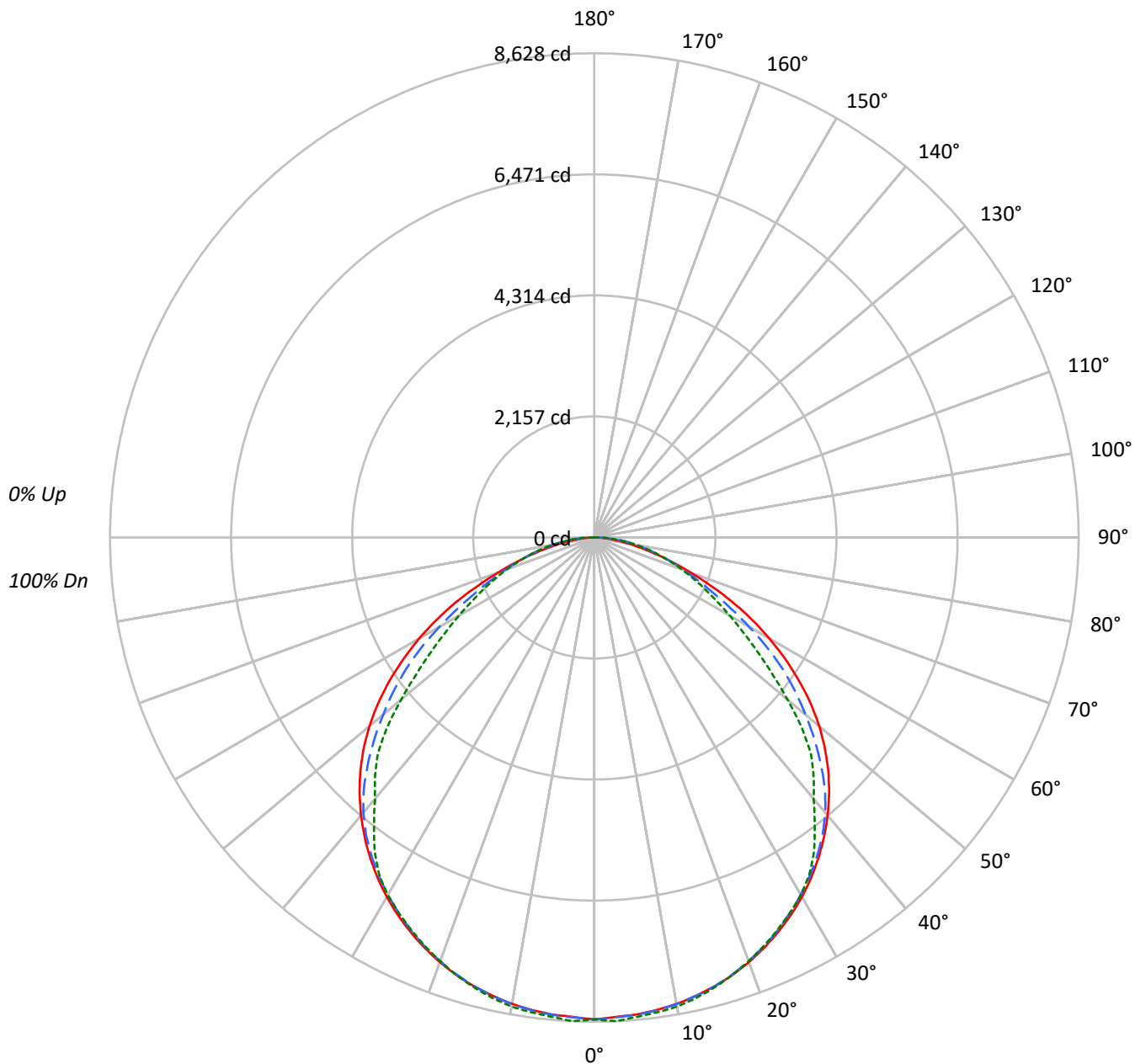
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	13867	13867	13867
5°	13830	13840	13902
10°	13838	13844	13917
15°	13839	13838	13870
20°	13836	13804	13808
25°	13815	13763	13747
30°	13792	13710	13717
35°	13728	13643	13449
40°	13630	13491	12811
45°	13457	13026	12456
50°	13133	12333	11281
55°	12535	11534	9976
60°	11633	10291	8996
65°	10340	8910	8272
70°	8581	7963	7797
75°	6940	7288	7378
80°	5513	6970	6941
85°	4316	7488	7143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	814.5	3.5
10°-20°	2342.8	10.2
20°-30°	3572.4	15.5
30°-40°	4322.1	18.7
40°-50°	4377.9	19.0
50°-60°	3618.4	15.7
60°-70°	2389.9	10.4
70°-80°	1246.2	5.4
80°-90°	390.7	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°	6729.8	29.2
0°-40°	11051.9	47.9
0°-60°	19048.2	82.5
0°-90°	23075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8589	8589	8589	8589	8589	
5°	8533	8585	8539	8576	8577	812
15°	8279	8322	8278	8304	8298	2338
25°	7755	7786	7726	7745	7716	3576
35°	6965	6974	6922	6912	6824	4356
45°	5894	5878	5705	5527	5455	4538
55°	4453	4387	4097	3699	3544	3969
65°	2706	2628	2332	2181	2165	2673
75°	1112	1132	1168	1184	1183	1212
85°	233	300	404	401	386	283
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8588.6	8588.6	8588.6	8588.6	8588.6
2.5°	8552.6	8603.1	8560.8	8597.9	8627.8
5°	8532.9	8584.6	8539.1	8576.3	8577.3
7.5°	8494.9	8546.4	8499.9	8537.1	8536.0
10°	8440.1	8488.7	8444.3	8488.7	8488.7
12.5°	8366.0	8413.3	8370.1	8411.3	8405.1
15°	8279.4	8321.6	8278.3	8304.1	8297.9
17.5°	8177.3	8215.4	8166.9	8188.5	8176.2
20°	8052.5	8087.6	8034.0	8061.8	8036.0
22.5°	7912.2	7945.2	7890.6	7911.3	7882.3
25°	7754.6	7785.5	7725.7	7745.3	7716.4
27.5°	7584.4	7612.2	7545.2	7569.0	7546.2
30°	7397.8	7411.2	7353.5	7384.4	7357.6
32.5°	7189.5	7197.8	7147.2	7175.0	7129.7
35°	6964.7	6974.0	6921.5	6912.2	6823.5
37.5°	6724.5	6728.6	6679.2	6595.6	6449.2
40°	6466.8	6464.7	6400.8	6208.0	6078.0
42.5°	6191.4	6190.5	6078.0	5858.4	5784.2
45°	5893.5	5878.0	5704.8	5527.4	5455.2
47.5°	5573.9	5557.3	5315.1	5173.8	5009.9
50°	5228.5	5199.6	4909.8	4717.0	4491.3
52.5°	4856.2	4811.9	4517.0	4205.6	3992.2
55°	4453.1	4387.1	4097.4	3699.4	3543.8
57.5°	4033.5	3935.5	3654.0	3266.4	3139.6
60°	3602.5	3493.2	3186.9	2868.4	2785.9
62.5°	3159.1	3050.9	2738.5	2498.3	2452.9
65°	2706.5	2628.1	2332.2	2180.7	2165.3
67.5°	2242.5	2214.7	1988.9	1911.6	1905.4
70°	1817.8	1812.6	1686.8	1647.6	1651.7
72.5°	1452.8	1446.6	1428.1	1408.4	1409.4
75°	1112.5	1132.1	1168.2	1183.6	1182.7
77.5°	830.0	870.2	946.5	977.4	972.2
80°	592.9	652.7	749.6	778.5	746.5
82.5°	394.9	457.8	572.2	576.3	550.6
85°	233.0	300.0	404.2	401.1	385.6
87.5°	115.5	180.4	242.3	231.9	221.7
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)