

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: P#

Luminaire Tested: **HBLED-LD5-24HE-W-UNV-L735-ED2-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

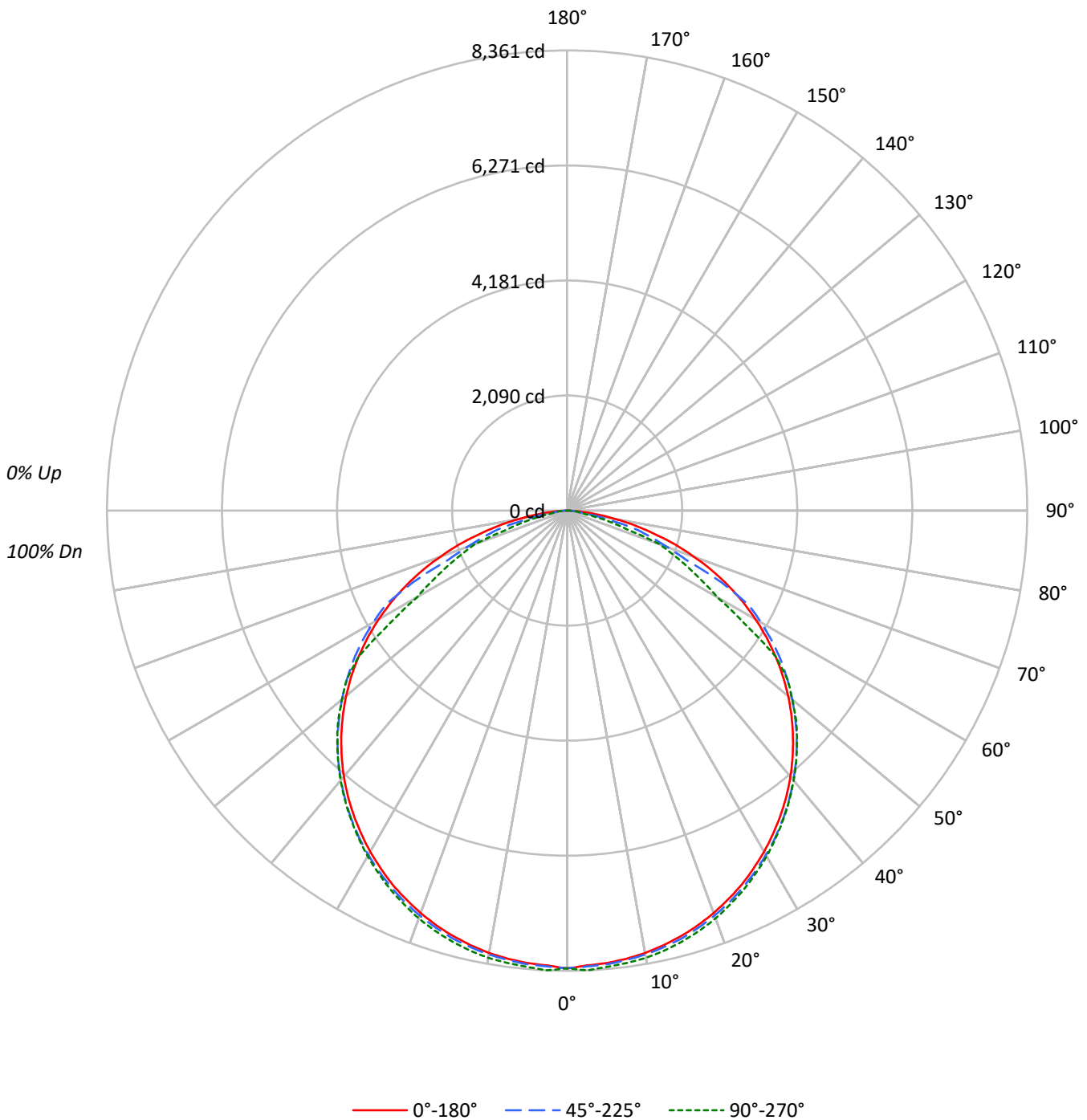
Lumens per Lamp: N/A
Luminaire Lumens: 24010.0 lumens
Efficiency: N/A
Efficacy: 164.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 146.3
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11190	11190	11190
5°	11144	11175	11238
10°	11150	11190	11274
15°	11148	11207	11285
20°	11142	11213	11292
25°	11138	11218	11280
30°	11118	11227	11268
35°	11104	11232	11247
40°	11084	11231	11249
45°	11042	11226	11240
50°	10976	11179	11177
55°	10848	11120	10844
60°	10647	10956	8484
65°	10292	9860	7644
70°	9642	7586	7045
75°	8537	6614	4390
80°	7031	3894	1963
85°	4633	2387	2570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.2	3.3
10°-20°	2277.0	9.5
20°-30°	3490.9	14.5
30°-40°	4281.2	17.8
40°-50°	4546.0	18.9
50°-60°	4152.2	17.3
60°-70°	2891.6	12.0
70°-80°	1348.6	5.6
80°-90°	233.3	1.0
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°	6557.1	27.3
0°-40°	10838.3	45.1
0°-60°	19536.5	81.4
0°-90°	24010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8317	8317	8317	8317	8317	
5°	8251	8309	8274	8314	8321	785
15°	8003	8059	8046	8094	8102	2260
25°	7502	7568	7556	7612	7598	3457
35°	6760	6838	6838	6884	6847	4230
45°	5803	5891	5900	5938	5907	4476
55°	4625	4717	4740	4748	4623	4130
65°	3233	3332	3097	2463	2401	3190
75°	1642	1746	1272	881	844	1756
85°	300	197	155	166	166	388
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8316.8	8316.8	8316.8	8316.8	8316.8
2.5°	8273.0	8325.8	8290.9	8328.8	8360.7
5°	8251.0	8308.9	8274.0	8313.9	8320.8
7.5°	8215.1	8270.0	8238.1	8281.9	8292.9
10°	8161.3	8215.1	8190.2	8242.1	8252.0
12.5°	8088.5	8143.3	8124.4	8181.2	8188.2
15°	8002.8	8058.6	8045.6	8094.5	8101.5
17.5°	7902.1	7959.9	7944.9	7996.8	8001.8
20°	7781.4	7844.2	7831.3	7892.1	7886.1
22.5°	7645.8	7712.6	7702.6	7763.5	7745.5
25°	7502.2	7568.0	7556.1	7611.9	7597.9
27.5°	7333.7	7406.5	7395.5	7449.4	7427.4
30°	7156.2	7230.0	7226.0	7274.9	7252.9
32.5°	6964.8	7043.5	7039.6	7087.4	7053.5
35°	6760.4	6838.1	6838.1	6884.0	6847.1
37.5°	6544.0	6622.8	6623.8	6667.6	6632.7
40°	6310.7	6389.4	6394.4	6436.3	6404.4
42.5°	6065.4	6151.1	6155.1	6193.0	6163.1
45°	5803.1	5890.9	5899.9	5937.8	5906.8
47.5°	5528.9	5617.7	5625.7	5666.5	5644.6
50°	5243.8	5329.5	5340.5	5374.4	5339.5
52.5°	4942.6	5030.4	5045.3	5066.3	5050.3
55°	4624.6	4717.3	4740.2	4748.2	4622.6
57.5°	4295.5	4390.2	4412.2	4228.7	3824.9
60°	3956.5	4050.2	4071.2	3440.0	3152.8
62.5°	3603.5	3695.3	3718.2	2850.7	2759.0
65°	3232.6	3332.3	3097.0	2462.8	2401.0
67.5°	2851.7	2954.4	2342.2	2110.9	2074.0
70°	2450.9	2554.6	1928.4	1799.8	1790.8
72.5°	2066.0	2142.8	1582.4	1364.0	1148.7
75°	1642.2	1745.9	1272.3	881.4	844.5
77.5°	1273.3	1100.8	767.8	646.1	509.5
80°	907.4	735.9	502.5	268.2	253.3
82.5°	575.3	480.6	197.4	202.4	211.4
85°	300.1	197.4	154.6	165.5	166.5
87.5°	96.7	84.8	92.7	91.7	90.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)