

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-LD5-24SE-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-LD5-24SE-W-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

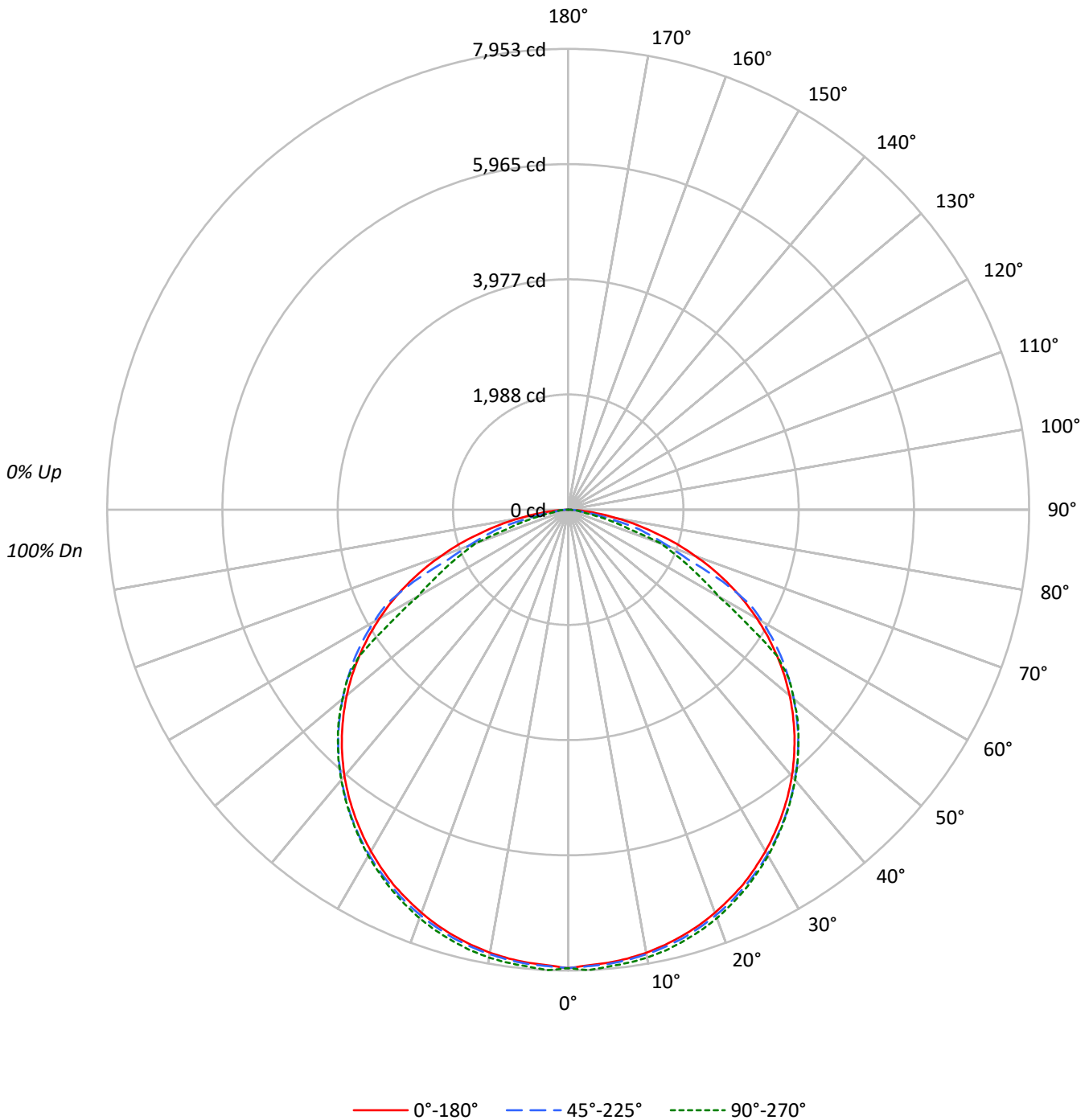
Lumens per Lamp: N/A
Luminaire Lumens: 22840.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 154
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	0
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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10645	10645	10645
5°	10601	10631	10691
10°	10607	10645	10725
15°	10604	10661	10735
20°	10599	10667	10741
25°	10595	10671	10730
30°	10576	10680	10719
35°	10563	10685	10699
40°	10544	10684	10701
45°	10504	10679	10692
50°	10441	10634	10632
55°	10320	10578	10315
60°	10128	10422	8071
65°	9790	9379	7272
70°	9172	7216	6701
75°	8121	6292	4177
80°	6688	3704	1867
85°	4407	2269	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.8	3.3
10°-20°	2166.0	9.5
20°-30°	3320.8	14.5
30°-40°	4072.6	17.8
40°-50°	4324.4	18.9
50°-60°	3949.8	17.3
60°-70°	2750.7	12.0
70°-80°	1282.9	5.6
80°-90°	221.9	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°	6237.6	27.3
0°-40°	10310.2	45.1
0°-60°	18584.5	81.4
0°-90°	22840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7912	7912	7912	7912	7912	
5°	7849	7904	7871	7909	7915	747
15°	7613	7666	7654	7700	7707	2150
25°	7137	7199	7188	7241	7228	3289
35°	6431	6505	6505	6549	6514	4024
45°	5520	5604	5612	5648	5619	4257
55°	4399	4487	4509	4517	4397	3929
65°	3075	3170	2946	2343	2284	3034
75°	1562	1661	1210	838	803	1670
85°	286	188	147	158	158	369
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7911.6	7911.6	7911.6	7911.6	7911.6
2.5°	7869.8	7920.1	7886.9	7923.0	7953.3
5°	7849.0	7904.0	7870.8	7908.7	7915.4
7.5°	7814.8	7867.0	7836.6	7878.4	7888.8
10°	7763.6	7814.8	7791.1	7840.4	7849.9
12.5°	7694.4	7746.5	7728.5	7782.6	7789.2
15°	7612.8	7665.9	7653.6	7700.0	7706.7
17.5°	7517.0	7572.0	7557.8	7607.1	7611.8
20°	7402.2	7462.0	7449.6	7507.5	7501.8
22.5°	7273.2	7336.8	7327.3	7385.1	7368.1
25°	7136.6	7199.2	7187.9	7241.0	7227.7
27.5°	6976.3	7045.6	7035.1	7086.4	7065.5
30°	6807.5	6877.7	6873.9	6920.4	6899.5
32.5°	6625.4	6700.3	6696.5	6742.0	6709.8
35°	6430.9	6504.9	6504.9	6548.6	6513.5
37.5°	6225.1	6300.0	6301.0	6342.7	6309.5
40°	6003.2	6078.1	6082.8	6122.7	6092.3
42.5°	5769.8	5851.4	5855.2	5891.2	5862.8
45°	5520.4	5603.8	5612.4	5648.4	5619.0
47.5°	5259.5	5343.9	5351.5	5390.4	5369.5
50°	4988.2	5069.8	5080.2	5112.5	5079.3
52.5°	4701.8	4785.3	4799.5	4819.4	4804.2
55°	4399.2	4487.4	4509.2	4516.8	4397.3
57.5°	4086.2	4176.3	4197.2	4022.7	3638.5
60°	3763.7	3852.9	3872.8	3272.4	2999.2
62.5°	3427.9	3515.2	3537.0	2711.8	2624.5
65°	3075.1	3169.9	2946.1	2342.8	2284.0
67.5°	2712.8	2810.5	2228.1	2008.0	1972.9
70°	2331.5	2430.1	1834.4	1712.1	1703.5
72.5°	1965.3	2038.4	1505.3	1297.6	1092.7
75°	1562.2	1660.9	1210.3	838.5	803.4
77.5°	1211.3	1047.2	730.4	614.6	484.7
80°	863.1	700.0	478.1	255.2	240.9
82.5°	547.3	457.2	187.8	192.5	201.1
85°	285.5	187.8	147.0	157.5	158.4
87.5°	92.0	80.6	88.2	87.3	86.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)