

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-A-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 (P23761)
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-A-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

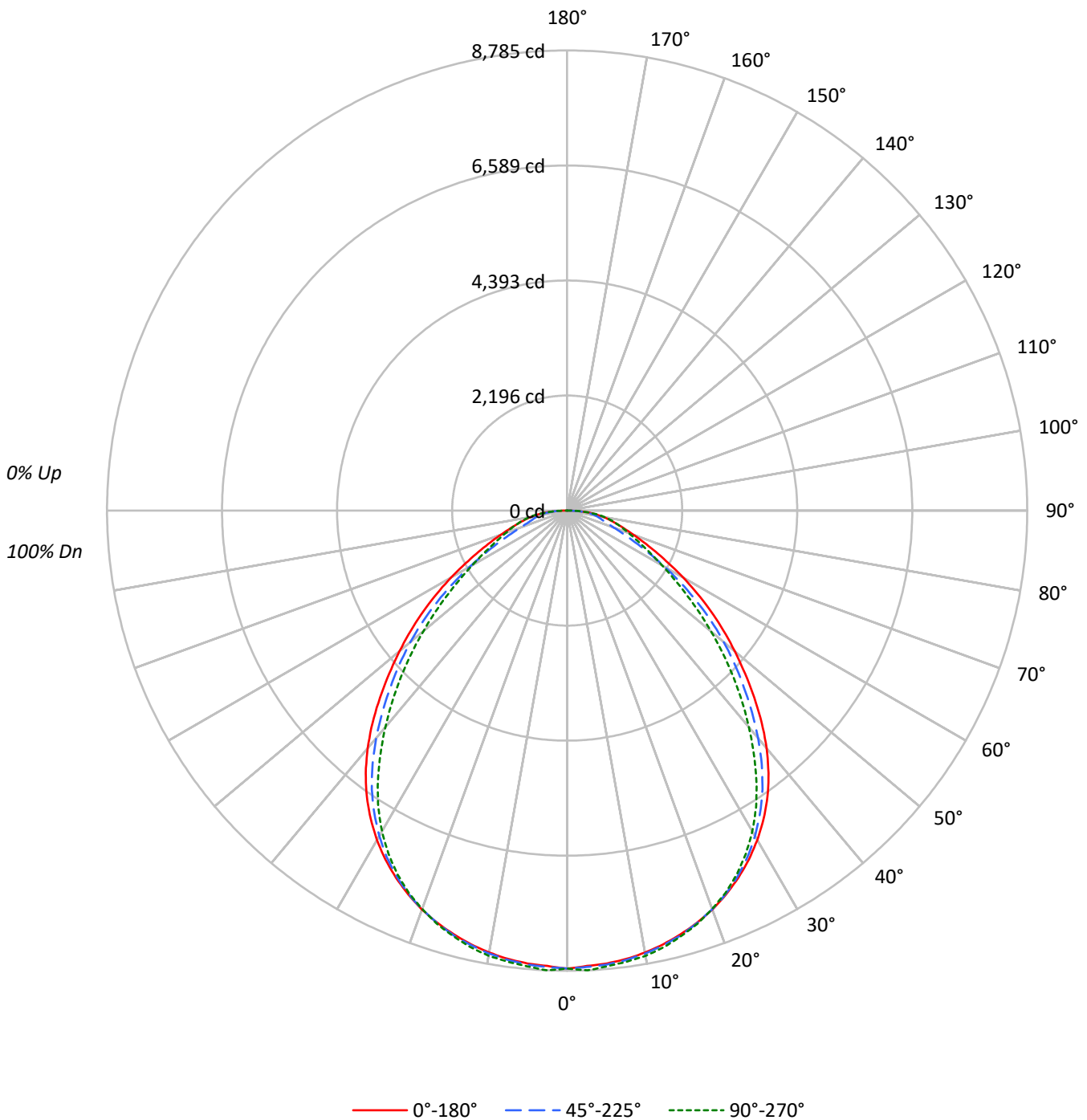
Lumens per Lamp: N/A
Luminaire Lumens: 20084.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-24SE-W-A-UNV-L735-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24SE-W-A-UNV-L735-ED2-U

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11763	11763	11763
5°	11722	11748	11796
10°	11705	11732	11791
15°	11666	11690	11717
20°	11605	11596	11588
25°	11479	11440	11375
30°	11281	11145	10982
35°	10953	10678	10349
40°	10408	9961	9484
45°	9615	9079	8529
50°	8741	8175	7502
55°	7859	7078	6486
60°	6877	5784	5628
65°	5930	4549	5079
70°	5287	3712	4895
75°	5064	3624	5115
80°	5478	4286	5700
85°	6149	5161	6211



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24SE-W-A-UNV-L735-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	828.6	4.1
10°-20°	2371.4	11.8
20°-30°	3547.4	17.7
30°-40°	4047.3	20.2
40°-50°	3684.2	18.3
50°-60°	2705.3	13.5
60°-70°	1597.3	8.0
70°-80°	915.4	4.6
80°-90°	387.1	1.9
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°	6747.5	33.6
0°-40°	10794.8	53.7
0°-60°	17184.2	85.6
0°-90°	20084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8743	8743	8743	8743	8743	
5°	8679	8733	8698	8733	8734	825
15°	8375	8422	8392	8422	8412	2363
25°	7732	7760	7706	7703	7662	3559
35°	6668	6636	6501	6389	6301	4155
45°	5053	5024	4771	4557	4482	3894
55°	3350	3196	3017	2798	2765	2996
65°	1863	1626	1429	1528	1595	1874
75°	974	835	697	909	984	1050
85°	398	368	334	394	402	417
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24SE-W-A-UNV-L735-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8742.9	8742.9	8742.9	8742.9	8742.9
2.5°	8702.5	8752.8	8721.2	8755.7	8785.3
5°	8678.8	8733.0	8698.5	8733.0	8734.0
7.5°	8635.4	8685.7	8652.2	8689.7	8685.7
10°	8567.4	8617.7	8587.1	8627.5	8630.5
12.5°	8480.6	8528.9	8497.4	8543.7	8535.8
15°	8375.1	8421.5	8391.9	8421.5	8411.6
17.5°	8250.9	8293.3	8254.8	8287.4	8270.6
20°	8105.0	8140.5	8099.0	8129.6	8093.1
22.5°	7930.4	7962.0	7918.6	7935.4	7897.9
25°	7732.2	7759.9	7705.6	7702.7	7662.2
27.5°	7511.4	7526.2	7457.2	7433.5	7387.1
30°	7260.9	7264.9	7173.2	7128.8	7068.7
32.5°	6979.9	6970.1	6852.7	6786.7	6712.7
35°	6668.3	6635.8	6500.7	6389.3	6300.6
37.5°	6316.3	6265.1	6103.4	5938.7	5853.9
40°	5925.9	5865.7	5671.5	5467.4	5399.4
42.5°	5500.9	5449.6	5220.9	5007.9	4940.9
45°	5053.3	5023.7	4771.3	4557.3	4482.4
47.5°	4605.6	4583.9	4337.4	4119.5	4028.8
50°	4175.7	4128.4	3905.6	3667.0	3584.1
52.5°	3758.7	3662.0	3465.8	3221.3	3160.1
55°	3350.4	3195.6	3017.2	2798.3	2764.8
57.5°	2946.2	2746.0	2572.5	2408.8	2407.8
60°	2555.7	2327.0	2149.5	2063.7	2091.3
62.5°	2189.9	1955.2	1763.0	1768.9	1819.2
65°	1862.6	1625.9	1428.7	1528.3	1595.4
67.5°	1581.6	1355.8	1155.6	1341.0	1405.1
70°	1343.9	1139.8	943.6	1175.3	1244.3
72.5°	1143.8	972.2	795.7	1037.3	1107.3
75°	974.2	835.1	697.1	909.1	984.0
77.5°	836.1	712.9	625.1	786.8	864.7
80°	707.0	598.5	553.1	668.5	735.6
82.5°	560.1	485.1	458.5	543.3	577.8
85°	398.3	367.8	334.3	394.4	402.3
87.5°	218.9	226.8	187.3	226.8	227.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)