

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-AI-UNV-L835-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 (P23765)
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-AI-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

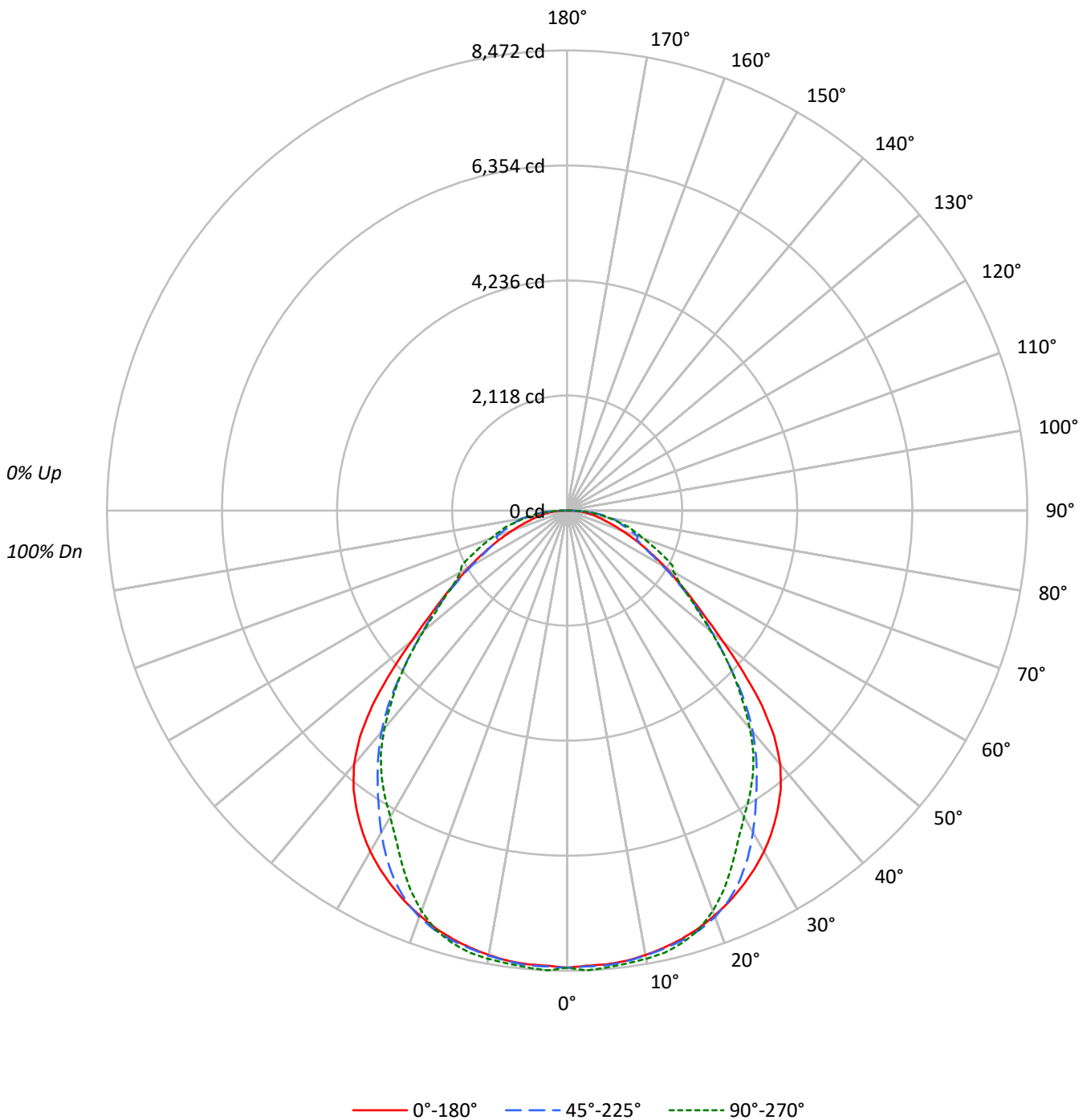
Lumens per Lamp: N/A
Luminaire Lumens: 19480.0 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-AI-UNV-L835-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24SE-W-AI-UNV-L835-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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11324	11324	11324
5°	11323	11348	11403
10°	11351	11366	11449
15°	11369	11411	11467
20°	11357	11399	11230
25°	11328	11159	10673
30°	11262	10632	10114
35°	11092	9993	9785
40°	10721	9344	9190
45°	9636	8343	8313
50°	7816	7267	7217
55°	6490	6369	6367
60°	5619	5455	6098
65°	4870	4839	6147
70°	4199	5428	5860
75°	3765	5564	6109
80°	3914	6550	6129
85°	4443	7548	7003



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24SE-W-AI-UNV-L835-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.3	4.1
10°-20°	2314.2	11.9
20°-30°	3437.1	17.6
30°-40°	3902.1	20.0
40°-50°	3488.3	17.9
50°-60°	2411.8	12.4
60°-70°	1591.5	8.2
70°-80°	1073.7	5.5
80°-90°	459.9	2.4
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°	6552.7	33.6
0°-40°	10454.8	53.7
0°-60°	16355.0	84.0
0°-90°	19480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8416	8416	8416	8416	8416	
5°	8384	8435	8402	8436	8443	798
15°	8162	8201	8192	8238	8232	2304
25°	7631	7703	7516	7292	7189	3516
35°	6753	6611	6084	5995	5957	4211
45°	5064	4635	4385	4418	4369	3851
55°	2767	2526	2715	2677	2714	2513
65°	1530	1358	1520	1777	1931	1526
75°	724	911	1070	1144	1175	791
85°	288	400	489	492	454	300
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24SE-W-AI-UNV-L835-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8416.0	8416.0	8416.0	8416.0	8416.0
2.5°	8387.4	8439.8	8400.7	8436.9	8472.2
5°	8383.6	8435.0	8401.7	8436.0	8442.6
7.5°	8359.7	8407.4	8368.3	8401.7	8409.3
10°	8308.3	8364.5	8318.8	8370.2	8379.7
12.5°	8241.6	8298.7	8258.7	8329.2	8333.1
15°	8161.5	8200.6	8192.0	8237.8	8232.0
17.5°	8060.5	8105.3	8098.6	8110.0	8083.4
20°	7931.8	7982.3	7961.4	7909.0	7843.2
22.5°	7793.7	7854.6	7771.7	7639.3	7546.8
25°	7630.7	7703.1	7516.3	7292.4	7189.4
27.5°	7450.6	7515.4	7204.7	6930.2	6823.5
30°	7248.5	7276.2	6843.5	6582.4	6510.0
32.5°	7015.0	6975.0	6457.5	6285.0	6243.1
35°	6753.0	6611.0	6084.0	5995.3	5957.2
37.5°	6457.5	6197.4	5715.2	5674.2	5634.1
40°	6104.0	5719.9	5319.7	5293.0	5232.0
42.5°	5647.5	5200.5	4880.3	4848.9	4794.6
45°	5064.3	4635.4	4384.8	4418.1	4368.6
47.5°	4393.3	4068.4	3909.2	4000.7	3909.2
50°	3733.9	3515.6	3471.8	3554.7	3448.0
52.5°	3193.5	2997.2	3087.7	3102.0	3038.2
55°	2766.6	2525.5	2715.1	2677.0	2714.2
57.5°	2394.9	2125.2	2358.7	2314.8	2442.5
60°	2088.0	1785.0	2027.0	2017.5	2266.2
62.5°	1786.9	1544.8	1739.2	1879.3	2185.2
65°	1529.6	1358.0	1520.0	1777.3	1930.8
67.5°	1282.7	1217.9	1390.4	1533.4	1701.1
70°	1067.4	1100.7	1379.9	1353.3	1489.5
72.5°	886.3	999.7	1217.9	1222.7	1319.0
75°	724.3	911.1	1070.2	1143.6	1175.1
77.5°	602.3	826.3	966.3	992.1	961.6
80°	505.1	728.1	845.3	833.9	791.0
82.5°	407.9	551.8	666.1	676.6	626.1
85°	287.8	400.3	488.9	491.7	453.6
87.5°	154.4	246.8	296.4	305.0	282.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)