

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-LD5-48SE-W-WG-UNV-L835-ED4-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-W-WG-UNV-L835-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

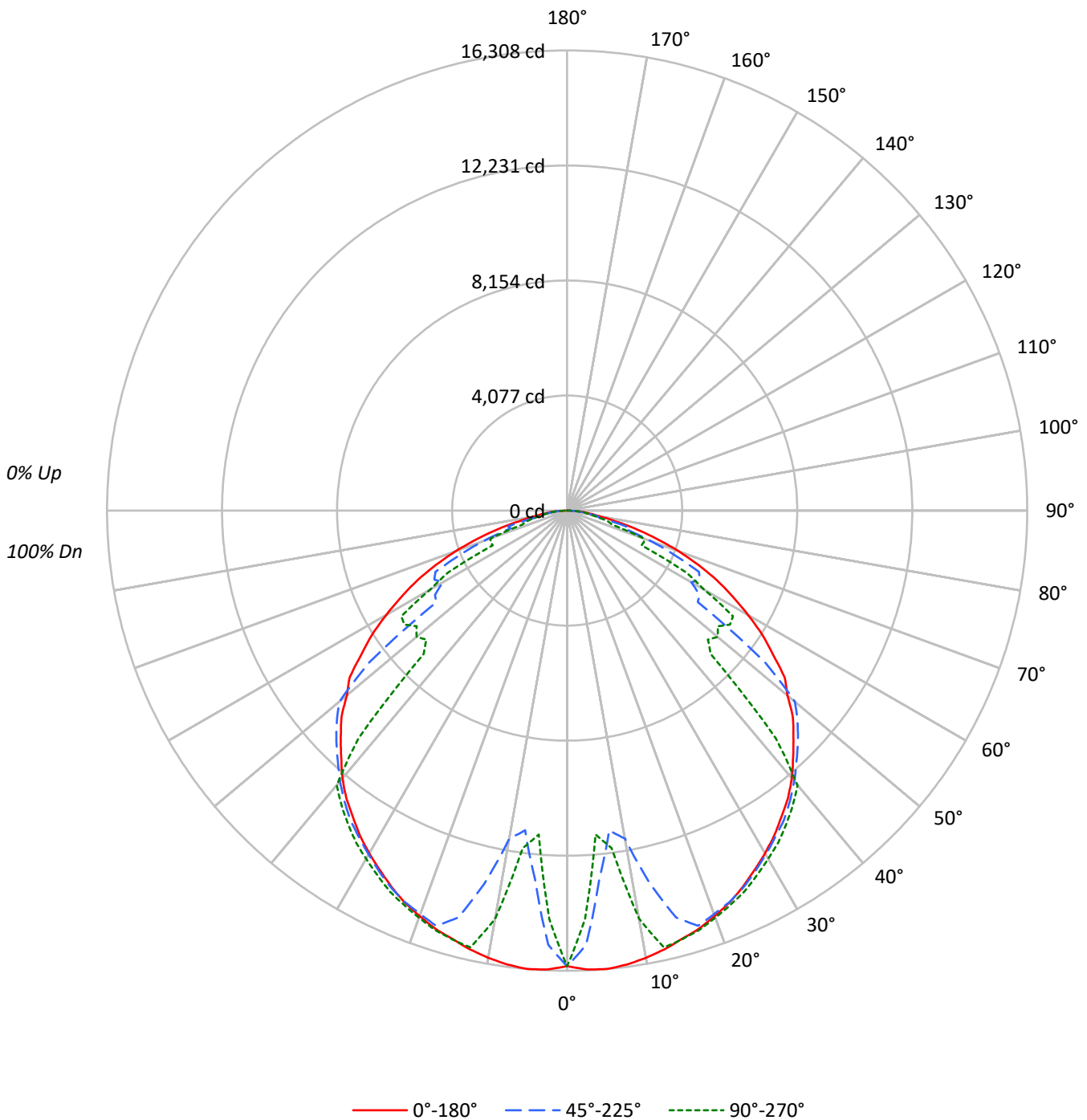
Lumens per Lamp: N/A
Luminaire Lumens: 42774.0 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 299.1
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-LD5-48SE-W-WG-UNV-L835-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48SE-W-WG-UNV-L835-ED4-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	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21724	21724	21724
5°	22026	17695	15562
10°	21988	16137	20070
15°	21891	20799	21909
20°	21891	21791	21985
25°	21852	21900	22101
30°	21788	21860	22142
35°	21754	21995	22252
40°	21756	21994	22309
45°	21586	22009	13677
50°	21342	22053	14577
55°	20892	13261	16521
60°	19929	13669	15129
65°	18673	16411	9257
70°	16489	12433	11347
75°	13138	11301	7869
80°	9050	8168	6761
85°	8673	7540	7152



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48SE-W-WG-UNV-L835-ED4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1291.1	3.0
10°-20°	4044.8	9.5
20°-30°	6654.6	15.6
30°-40°	8367.3	19.6
40°-50°	8206.2	19.2
50°-60°	6799.3	15.9
60°-70°	4795.7	11.2
70°-80°	2092.3	4.9
80°-90°	522.7	1.2
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°	11990.5	28.0
0°-40°	20357.8	47.6
0°-60°	35363.3	82.7
0°-90°	42774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16146	16146	16146	16146	16146	
5°	16308	15179	13101	11879	11522	###
15°	15715	10914	14931	15777	15729	4444
25°	14719	13468	14752	14850	14887	6785
35°	13244	13236	13391	13480	13547	8298
45°	11344	11379	11566	10244	7188	8757
55°	8906	9198	5653	6427	7043	7968
65°	5865	6211	5155	3966	2908	5767
75°	2527	2477	2174	1421	1514	2710
85°	562	500	488	467	463	583
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48SE-W-WG-UNV-L835-ED4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16145.8	16145.8	16145.8	16145.8	16145.8
2.5°	16279.0	15941.1	15404.4	14728.7	14489.3
5°	16308.0	15178.6	13101.2	11879.1	11522.0
7.5°	16224.9	13794.3	11421.6	11678.3	12056.7
10°	16093.7	12578.0	11811.5	13896.6	14690.1
12.5°	15925.7	11496.9	13531.7	15697.9	15856.2
15°	15715.3	10913.8	14931.4	15777.0	15728.8
17.5°	15537.6	11255.5	15433.4	15618.7	15584.0
20°	15288.6	11937.0	15219.1	15367.8	15354.2
22.5°	15037.6	12744.0	15016.4	15122.6	15122.6
25°	14719.1	13468.0	14751.9	14850.3	14887.0
27.5°	14369.6	13885.0	14421.7	14502.8	14568.5
30°	14024.0	13944.9	14070.4	14174.6	14251.9
32.5°	13659.2	13628.3	13726.7	13836.8	13935.2
35°	13244.1	13236.3	13390.8	13479.6	13547.2
37.5°	12854.1	12827.1	12969.9	13093.5	13145.6
40°	12386.9	12386.9	12522.0	12647.5	12701.6
42.5°	11854.0	11929.3	12033.6	12162.9	10954.4
45°	11344.3	11379.1	11566.4	10243.9	7187.7
47.5°	10854.0	10898.4	11076.0	6585.4	6764.9
50°	10195.6	10396.4	10535.4	6566.0	6963.8
52.5°	9714.9	9801.8	8844.2	6500.4	6724.4
55°	8906.0	9197.5	5652.9	6427.0	7042.9
57.5°	8214.8	8427.2	5558.3	6585.4	6967.6
60°	7405.9	7730.2	5079.5	6353.7	5622.0
62.5°	6629.8	6938.7	5303.4	5000.3	4760.9
65°	5865.2	6210.8	5154.8	3965.5	2907.5
67.5°	5027.3	4704.9	4112.2	2793.6	2940.3
70°	4191.4	3285.9	3160.4	3123.7	2884.3
72.5°	3332.3	2397.8	2098.6	2343.8	1677.7
75°	2527.2	2477.0	2173.9	1420.9	1513.6
77.5°	1753.0	1787.8	1164.2	1386.2	1150.7
80°	1168.0	1011.6	1054.1	884.2	872.6
82.5°	808.9	826.3	693.1	671.9	681.5
85°	561.8	500.0	488.4	467.2	463.3
87.5°	187.3	218.2	202.7	183.4	195.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)