

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-LD5-48HE-W-CLI-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-W-CLI-UNV-L835-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

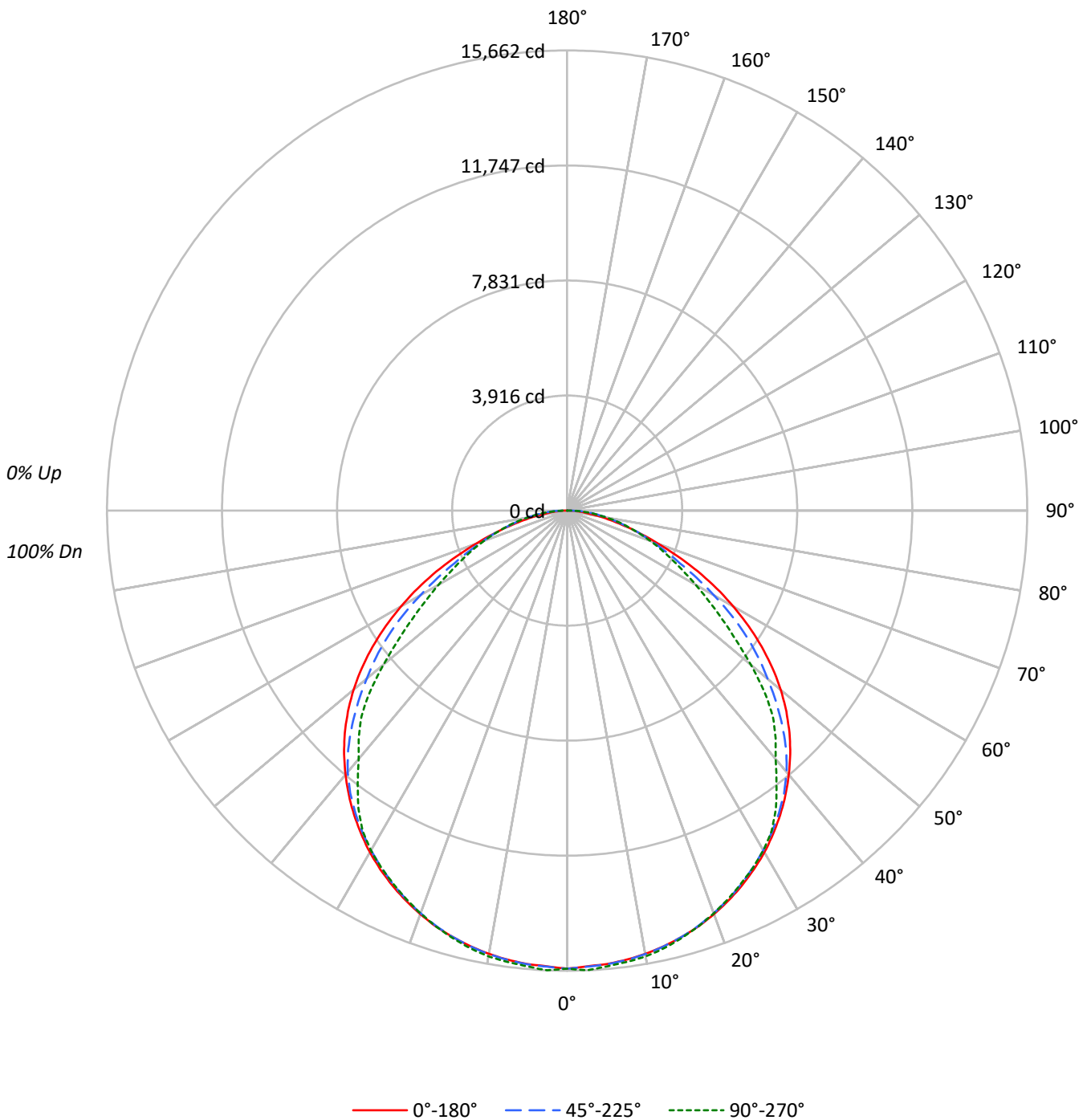
Lumens per Lamp: N/A
Luminaire Lumens: 41889.0 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 286.2
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	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20978	20978	20978
5°	20922	20937	21030
10°	20933	20944	21054
15°	20936	20933	20983
20°	20931	20882	20888
25°	20899	20821	20796
30°	20865	20740	20751
35°	20767	20638	20346
40°	20619	20409	19380
45°	20358	19706	18844
50°	19867	18657	17066
55°	18963	17448	15091
60°	17598	15568	13609
65°	15642	13479	12514
70°	12981	12046	11796
75°	10499	11024	11160
80°	8339	10543	10500
85°	6530	11327	10806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1478.6	3.5
10°-20°	4253.0	10.2
20°-30°	6485.2	15.5
30°-40°	7846.1	18.7
40°-50°	7947.4	19.0
50°-60°	6568.7	15.7
60°-70°	4338.5	10.4
70°-80°	2262.3	5.4
80°-90°	709.2	1.7
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°	12216.8	29.2
0°-40°	20062.9	47.9
0°-60°	34579.0	82.5
0°-90°	41889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15591	15591	15591	15591	15591	
5°	15490	15584	15502	15569	15571	###
15°	15030	15107	15028	15075	15064	4244
25°	14077	14133	14025	14060	14008	6491
35°	12643	12660	12565	12548	12387	7908
45°	10699	10671	10356	10034	9903	8238
55°	8084	7964	7438	6716	6433	7205
65°	4913	4771	4234	3959	3931	4853
75°	2020	2055	2121	2149	2147	2200
85°	423	545	734	728	700	513
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15591.3	15591.3	15591.3	15591.3	15591.3
2.5°	15525.8	15617.5	15540.8	15608.2	15662.4
5°	15490.3	15583.8	15501.5	15568.9	15570.7
7.5°	15421.0	15514.6	15430.4	15497.7	15495.9
10°	15321.8	15409.8	15329.3	15409.8	15409.8
12.5°	15187.0	15273.1	15194.5	15269.4	15258.2
15°	15029.8	15106.6	15027.9	15074.7	15063.5
17.5°	14844.5	14913.8	14825.8	14865.1	14842.6
20°	14618.0	14681.7	14584.3	14634.9	14588.1
22.5°	14363.5	14423.4	14324.2	14361.6	14309.2
25°	14077.1	14133.3	14024.7	14060.3	14007.9
27.5°	13768.3	13818.8	13697.2	13740.2	13699.0
30°	13429.5	13453.8	13349.0	13405.2	13356.5
32.5°	13051.4	13066.4	12974.7	13025.2	12942.9
35°	12643.4	12660.2	12564.8	12547.9	12387.0
37.5°	12207.3	12214.8	12124.9	11973.3	11707.5
40°	11739.3	11735.6	11619.6	11269.6	11033.7
42.5°	11239.6	11237.7	11033.7	10635.0	10500.3
45°	10698.7	10670.6	10356.2	10034.2	9903.2
47.5°	10118.5	10088.5	9648.7	9392.2	9094.6
50°	9491.4	9439.0	8913.1	8563.1	8153.2
52.5°	8815.7	8735.3	8200.0	7634.7	7247.3
55°	8083.9	7964.1	7438.2	6715.7	6433.1
57.5°	7322.1	7144.3	6633.3	5929.6	5699.3
60°	6539.7	6341.3	5785.4	5207.1	5057.4
62.5°	5734.9	5538.4	4971.3	4535.1	4452.8
65°	4913.2	4771.0	4233.8	3958.7	3930.6
67.5°	4071.0	4020.4	3610.5	3470.1	3458.9
70°	3299.8	3290.5	3062.1	2991.0	2998.5
72.5°	2637.2	2626.0	2592.3	2556.8	2558.6
75°	2019.6	2055.1	2120.6	2148.7	2146.8
77.5°	1506.7	1579.7	1718.2	1774.4	1765.0
80°	1076.2	1184.8	1360.7	1413.1	1355.1
82.5°	716.9	831.0	1038.8	1046.3	999.5
85°	423.0	544.7	733.7	728.1	700.0
87.5°	209.6	327.5	439.9	421.1	402.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)