

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-AI-UNV-L735-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 (P23765)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-W-AI-UNV-L735-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

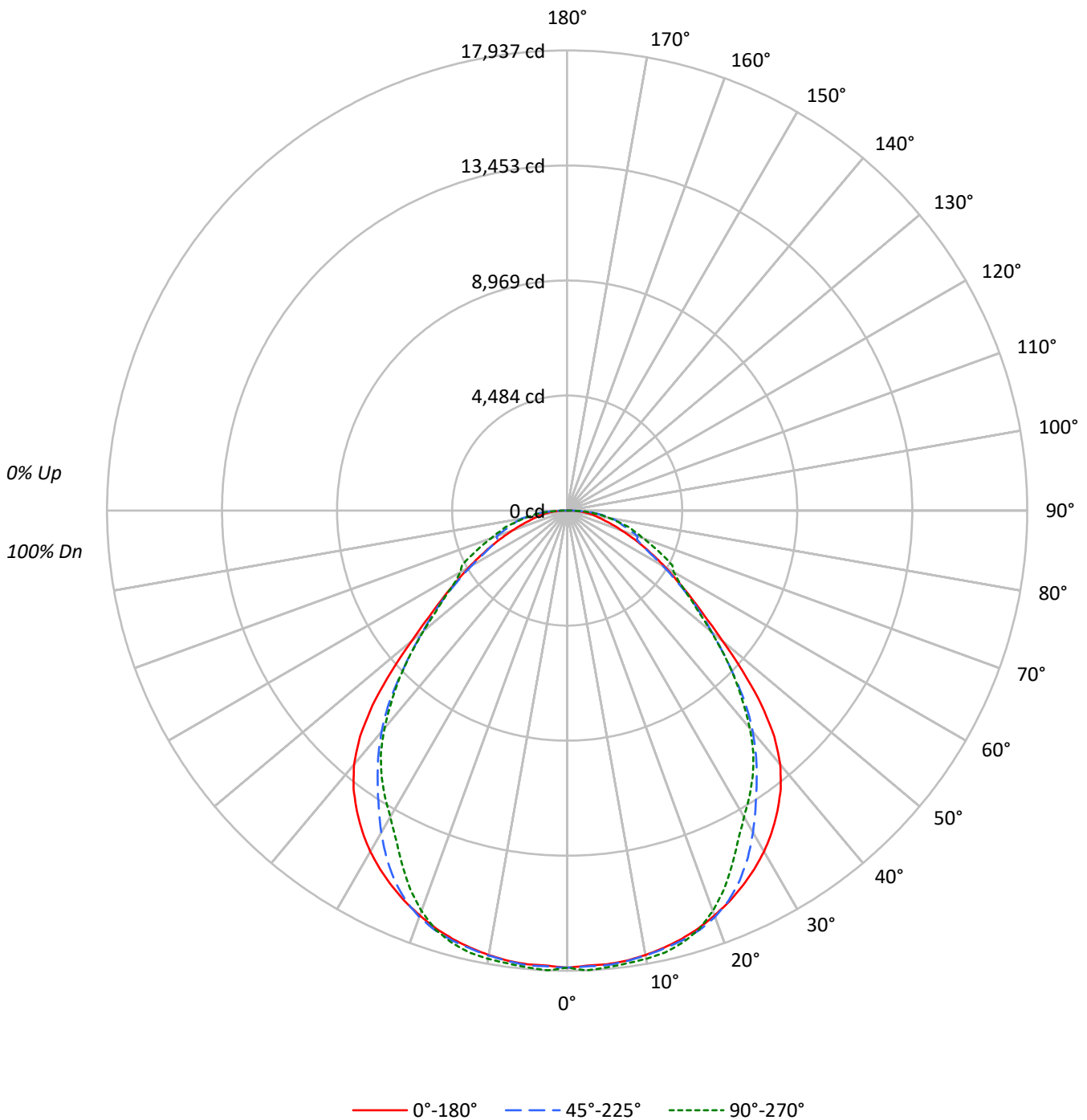
Lumens per Lamp: N/A
Luminaire Lumens: 41242.0 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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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	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°	23974	23974	23974
5°	23973	24024	24142
10°	24032	24062	24239
15°	24069	24159	24277
20°	24045	24134	23776
25°	23984	23624	22597
30°	23842	22510	21413
35°	23483	21157	20716
40°	22698	19782	19456
45°	20402	17664	17599
50°	16547	15386	15280
55°	13740	13484	13480
60°	11896	11548	12911
65°	10310	10245	13014
70°	8890	11493	12406
75°	7971	11779	12933
80°	8286	13867	12975
85°	9406	15980	14826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1696.5	4.1
10°-20°	4899.6	11.9
20°-30°	7276.9	17.6
30°-40°	8261.4	20.0
40°-50°	7385.3	17.9
50°-60°	5106.2	12.4
60°-70°	3369.4	8.2
70°-80°	2273.1	5.5
80°-90°	973.6	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°	13873.0	33.6
0°-40°	22134.4	53.7
0°-60°	34625.9	84.0
0°-90°	41242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17818	17818	17818	17818	17818	
5°	17749	17858	17788	17860	17874	###
15°	17279	17362	17344	17440	17428	4877
25°	16155	16309	15913	15439	15221	7444
35°	14297	13996	12881	12693	12612	8915
45°	10722	9814	9283	9354	9249	8154
55°	5857	5347	5748	5668	5746	5320
65°	3238	2875	3218	3763	4088	3232
75°	1533	1929	2266	2421	2488	1675
85°	609	847	1035	1041	960	635
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17817.8	17817.8	17817.8	17817.8	17817.8
2.5°	17757.3	17868.3	17785.5	17862.2	17936.9
5°	17749.2	17858.2	17787.6	17860.2	17874.3
7.5°	17698.8	17799.7	17716.9	17787.6	17803.7
10°	17589.8	17708.9	17612.0	17721.0	17741.1
12.5°	17448.6	17569.6	17484.9	17634.2	17642.3
15°	17279.1	17361.8	17343.7	17440.5	17428.4
17.5°	17065.2	17160.1	17145.9	17170.2	17113.7
20°	16792.9	16899.8	16855.4	16744.4	16605.2
22.5°	16500.3	16629.4	16453.9	16173.4	15977.7
25°	16155.3	16308.6	15913.2	15439.0	15221.1
27.5°	15773.9	15911.1	15253.4	14672.3	14446.3
30°	15346.2	15404.7	14488.7	13935.9	13782.5
32.5°	14851.9	14767.1	13671.6	13306.4	13217.6
35°	14297.0	13996.4	12880.6	12693.0	12612.3
37.5°	13671.6	13120.7	12099.8	12013.1	11928.3
40°	12923.0	12109.9	11262.5	11206.0	11076.9
42.5°	11956.6	11010.3	10332.4	10265.8	10150.8
45°	10721.8	9813.8	9283.2	9353.8	9248.9
47.5°	9301.3	8613.3	8276.4	8470.1	8276.4
50°	7905.1	7443.1	7350.3	7525.8	7299.8
52.5°	6761.1	6345.5	6537.2	6567.4	6432.3
55°	5857.2	5346.8	5748.3	5667.6	5746.3
57.5°	5070.3	4499.3	4993.7	4900.9	5171.2
60°	4420.7	3779.0	4291.5	4271.4	4798.0
62.5°	3783.1	3270.6	3682.2	3978.8	4626.5
65°	3238.3	2875.1	3218.1	3762.9	4087.7
67.5°	2715.7	2578.5	2943.7	3246.4	3601.5
70°	2259.8	2330.4	2921.5	2865.1	3153.6
72.5°	1876.4	2116.5	2578.5	2588.6	2792.4
75°	1533.4	1928.9	2265.8	2421.2	2487.8
77.5°	1275.2	1749.3	2045.9	2100.4	2035.8
80°	1069.4	1541.5	1789.7	1765.4	1674.6
82.5°	863.6	1168.2	1410.3	1432.5	1325.6
85°	609.3	847.4	1035.1	1041.1	960.4
87.5°	326.9	522.6	627.5	645.6	597.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)