

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-N-UNV-L740-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-N-UNV-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

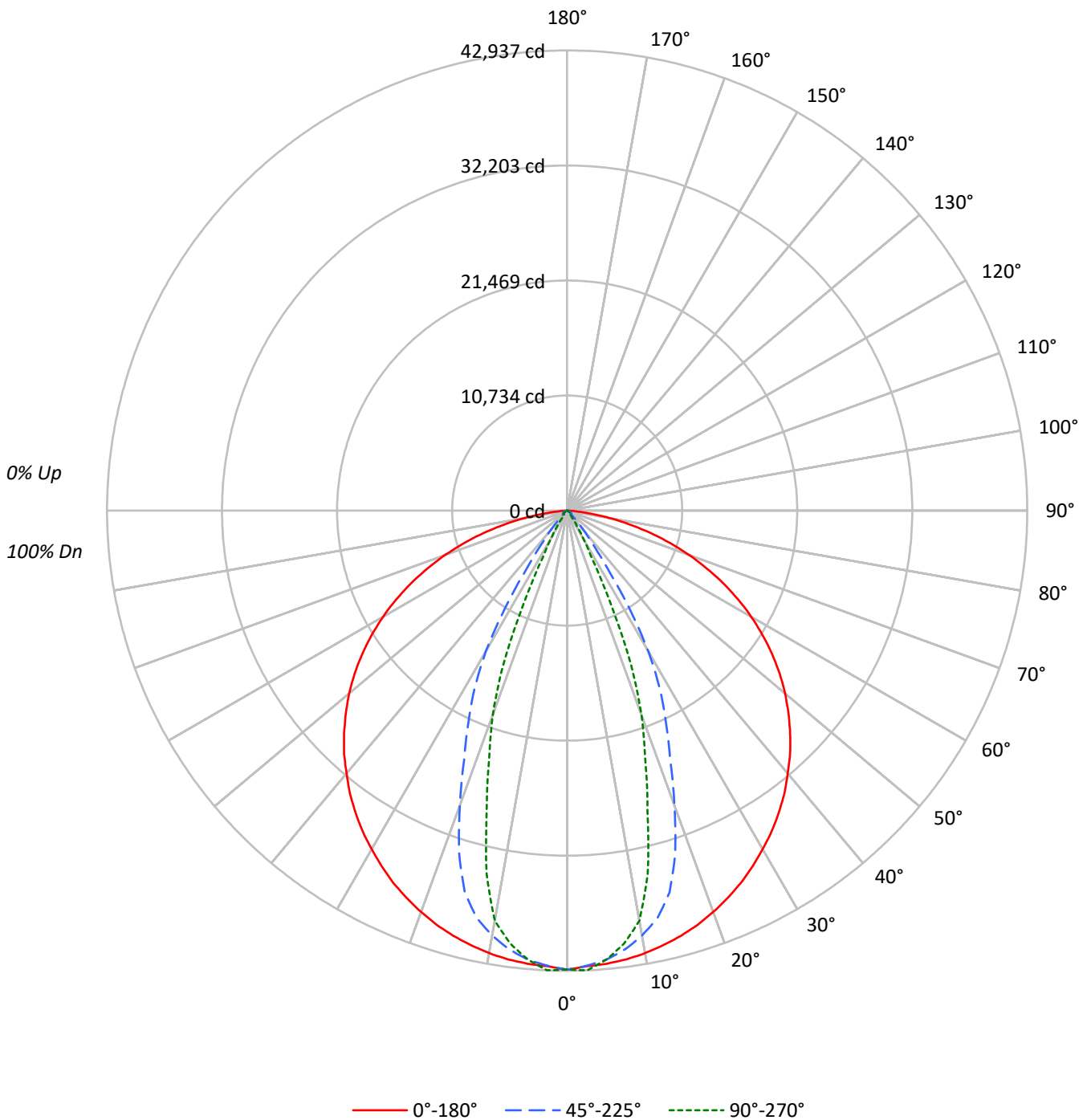
Lumens per Lamp: N/A
Luminaire Lumens: 45526.0 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	57631	57631	57631
5°	57323	56817	56792
10°	57287	54996	53067
15°	57206	51379	40386
20°	57073	41884	29071
25°	56928	32386	14320
30°	56676	23537	4644
35°	56542	10442	1195
40°	56246	4241	805
45°	55995	1190	857
50°	55558	844	951
55°	54758	1004	406
60°	53407	1119	247
65°	51210	713	292
70°	47574	633	361
75°	41619	477	498
80°	31119	584	711
85°	15413	755	943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3975.0	8.7
10°-20°	9939.4	21.8
20°-30°	10765.9	23.6
30°-40°	7972.6	17.5
40°-50°	5742.3	12.6
50°-60°	3555.6	7.8
60°-70°	2186.7	4.8
70°-80°	1152.7	2.5
80°-90°	235.9	0.5
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°	24680.2	54.2
0°-40°	32652.8	71.7
0°-60°	41950.7	92.1
0°-90°	45526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	42833	42833	42833	42833	42833	
5°	42442	42599	42067	42097	42048	###
15°	41068	40115	36885	31367	28993	11593
25°	38346	35125	21815	13723	9646	17669
35°	34424	24268	6357	1496	727	21536
45°	29427	13672	626	452	450	22694
55°	23343	2816	428	387	173	20838
65°	16085	298	224	143	92	15870
75°	8006	69	92	120	96	8456
85°	998	26	49	73	61	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	42832.9	42832.9	42832.9	42832.9	42832.9
2.5°	42557.8	42828.9	42508.9	42747.3	42936.8
5°	42441.7	42598.6	42066.8	42097.3	42048.4
7.5°	42237.9	42201.3	41306.7	40915.5	40744.4
10°	41930.3	41687.8	40253.3	39436.2	38841.2
12.5°	41532.9	40990.9	38939.0	36341.1	34727.3
15°	41068.3	40114.7	36885.1	31367.2	28993.4
17.5°	40514.1	39163.2	33527.1	26289.4	24170.3
20°	39860.0	38101.6	29252.2	22367.0	20302.9
22.5°	39130.6	36809.7	25099.5	18589.3	15644.9
25°	38346.1	35124.6	21814.8	13723.4	9646.1
27.5°	37439.3	32958.6	18733.9	8083.3	4922.9
30°	36479.6	30350.4	15149.7	4348.3	2989.2
32.5°	35511.7	27393.8	10719.9	2716.2	1695.3
35°	34423.6	24268.1	6357.4	1495.6	727.4
37.5°	33288.7	21403.2	3757.4	680.6	466.6
40°	32023.3	18784.9	2414.6	452.4	458.5
42.5°	30800.7	16343.8	1359.1	446.2	454.4
45°	29427.4	13672.5	625.6	452.4	450.3
47.5°	28007.2	10903.3	405.5	456.4	456.4
50°	26542.1	7796.0	403.4	466.6	454.4
52.5°	24995.6	4863.8	419.8	464.6	372.9
55°	23343.0	2816.0	427.9	387.1	173.2
57.5°	21631.4	1660.7	432.0	222.1	97.8
60°	19846.5	919.0	415.7	165.0	91.7
62.5°	18006.5	438.1	328.1	154.9	89.7
65°	16085.0	297.5	224.1	142.6	91.7
67.5°	14090.2	230.3	177.3	134.5	93.7
70°	12093.3	171.2	161.0	134.5	91.7
72.5°	10063.8	116.1	134.5	136.5	91.7
75°	8005.8	69.3	91.7	120.2	95.8
77.5°	5966.2	42.8	71.3	124.3	116.1
80°	4016.2	36.7	75.4	116.1	91.7
82.5°	2357.5	32.6	73.4	89.7	73.4
85°	998.4	26.5	48.9	73.4	61.1
87.5°	187.5	22.4	38.7	59.1	53.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)