

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-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 (P23760)
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-UNV-L735-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

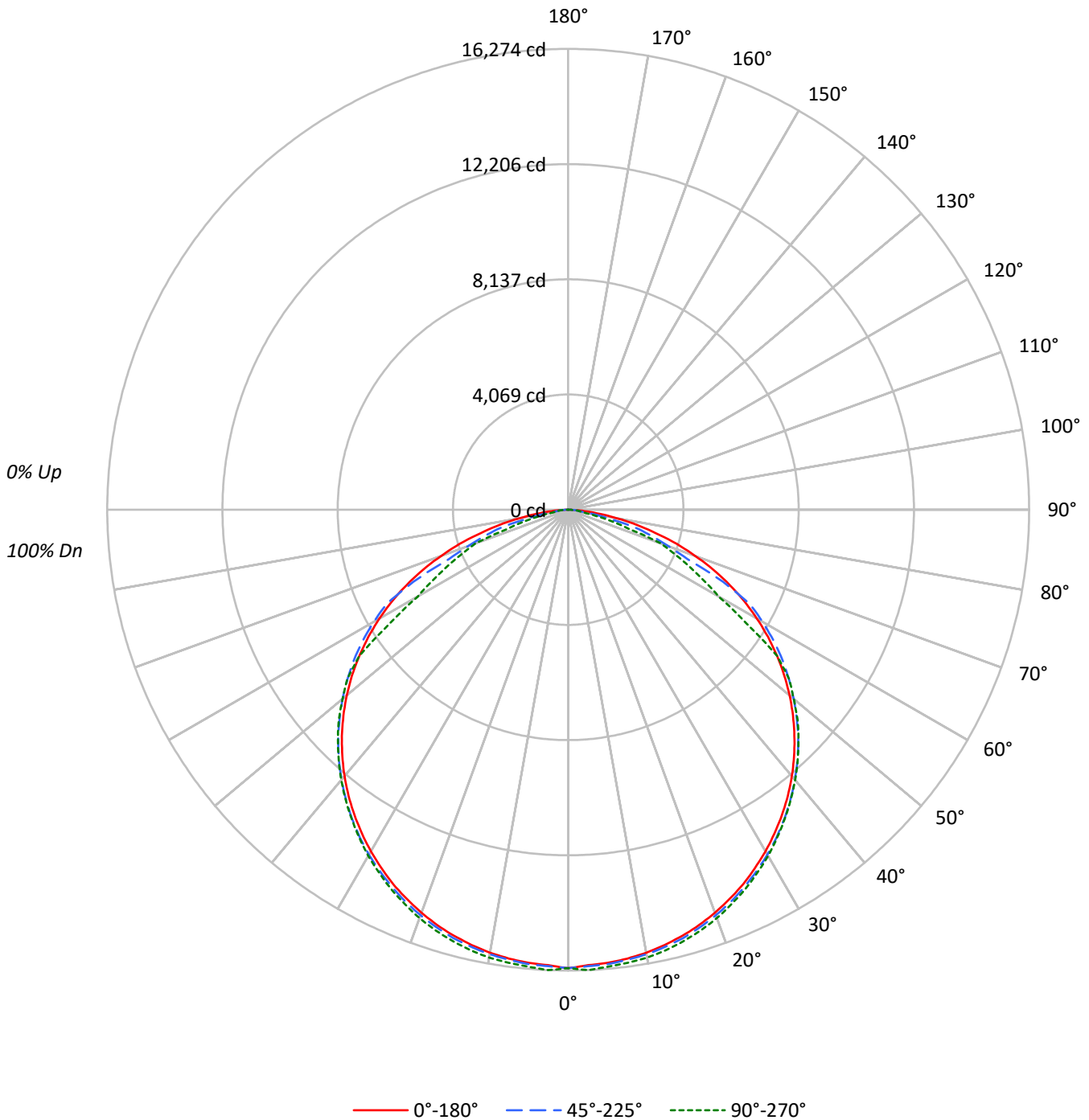
Lumens per Lamp: N/A
Luminaire Lumens: 46734.0 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21781	21781	21781
5°	21691	21752	21875
10°	21703	21780	21945
15°	21698	21814	21965
20°	21687	21826	21978
25°	21679	21834	21955
30°	21641	21852	21933
35°	21614	21862	21891
40°	21575	21861	21895
45°	21493	21851	21877
50°	21365	21759	21755
55°	21115	21644	21106
60°	20723	21324	16514
65°	20032	19192	14879
70°	18767	14766	13713
75°	16617	12874	8546
80°	13684	7579	3820
85°	9019	4644	5003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1536.2	3.3
10°-20°	4432.0	9.5
20°-30°	6794.8	14.5
30°-40°	8333.1	17.8
40°-50°	8848.4	18.9
50°-60°	8082.0	17.3
60°-70°	5628.3	12.0
70°-80°	2625.0	5.6
80°-90°	454.1	1.0
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°	12763.0	27.3
0°-40°	21096.2	45.1
0°-60°	38026.6	81.4
0°-90°	46734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16188	16188	16188	16188	16188	
5°	16060	16173	16105	16182	16196	###
15°	15577	15686	15660	15755	15769	4399
25°	14603	14731	14707	14816	14789	6729
35°	13159	13310	13310	13399	13328	8234
45°	11296	11466	11484	11558	11497	8711
55°	9001	9182	9227	9242	8998	8039
65°	6292	6486	6028	4794	4674	6208
75°	3196	3398	2476	1716	1644	3417
85°	584	384	301	322	324	755
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16188.2	16188.2	16188.2	16188.2	16188.2
2.5°	16102.8	16205.7	16137.8	16211.5	16273.6
5°	16060.1	16172.7	16104.8	16182.4	16196.0
7.5°	15990.3	16097.0	16034.9	16120.3	16141.7
10°	15885.5	15990.3	15941.8	16042.7	16062.1
12.5°	15743.8	15850.5	15813.7	15924.3	15937.9
15°	15576.9	15685.6	15660.3	15755.4	15769.0
17.5°	15380.9	15493.4	15464.3	15565.2	15574.9
20°	15146.0	15268.3	15243.1	15361.5	15349.8
22.5°	14882.1	15012.1	14992.7	15111.1	15076.2
25°	14602.6	14730.7	14707.4	14816.1	14788.9
27.5°	14274.6	14416.3	14394.9	14499.7	14457.0
30°	13929.1	14072.8	14065.0	14160.1	14117.4
32.5°	13556.5	13709.8	13702.1	13795.2	13729.2
35°	13158.6	13310.0	13310.0	13399.3	13327.5
37.5°	12737.5	12890.8	12892.7	12978.1	12910.2
40°	12283.3	12436.7	12446.4	12527.9	12465.8
42.5°	11805.9	11972.8	11980.6	12054.3	11996.1
45°	11295.5	11466.3	11483.7	11557.5	11497.3
47.5°	10761.7	10934.5	10950.0	11029.6	10986.9
50°	10206.7	10373.6	10394.9	10460.9	10393.0
52.5°	9620.6	9791.3	9820.5	9861.2	9830.2
55°	9001.4	9181.9	9226.6	9242.1	8997.6
57.5°	8361.0	8545.4	8588.1	8230.9	7444.9
60°	7701.1	7883.5	7924.3	6695.8	6136.8
62.5°	7014.1	7192.6	7237.3	5548.8	5370.2
65°	6292.1	6486.2	6028.1	4793.8	4673.5
67.5°	5550.7	5750.6	4558.9	4108.7	4036.9
70°	4770.5	4972.3	3753.5	3503.1	3485.7
72.5°	4021.3	4170.8	3080.1	2655.0	2235.8
75°	3196.5	3398.3	2476.5	1715.7	1643.9
77.5°	2478.4	2142.6	1494.4	1257.6	991.7
80°	1766.1	1432.3	978.2	522.1	493.0
82.5°	1119.8	935.5	384.3	394.0	411.5
85°	584.2	384.3	300.8	322.2	324.1
87.5°	188.3	165.0	180.5	178.6	176.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)