

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-CLI-UNV-L840-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 (P23769)
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-CLI-UNV-L840-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

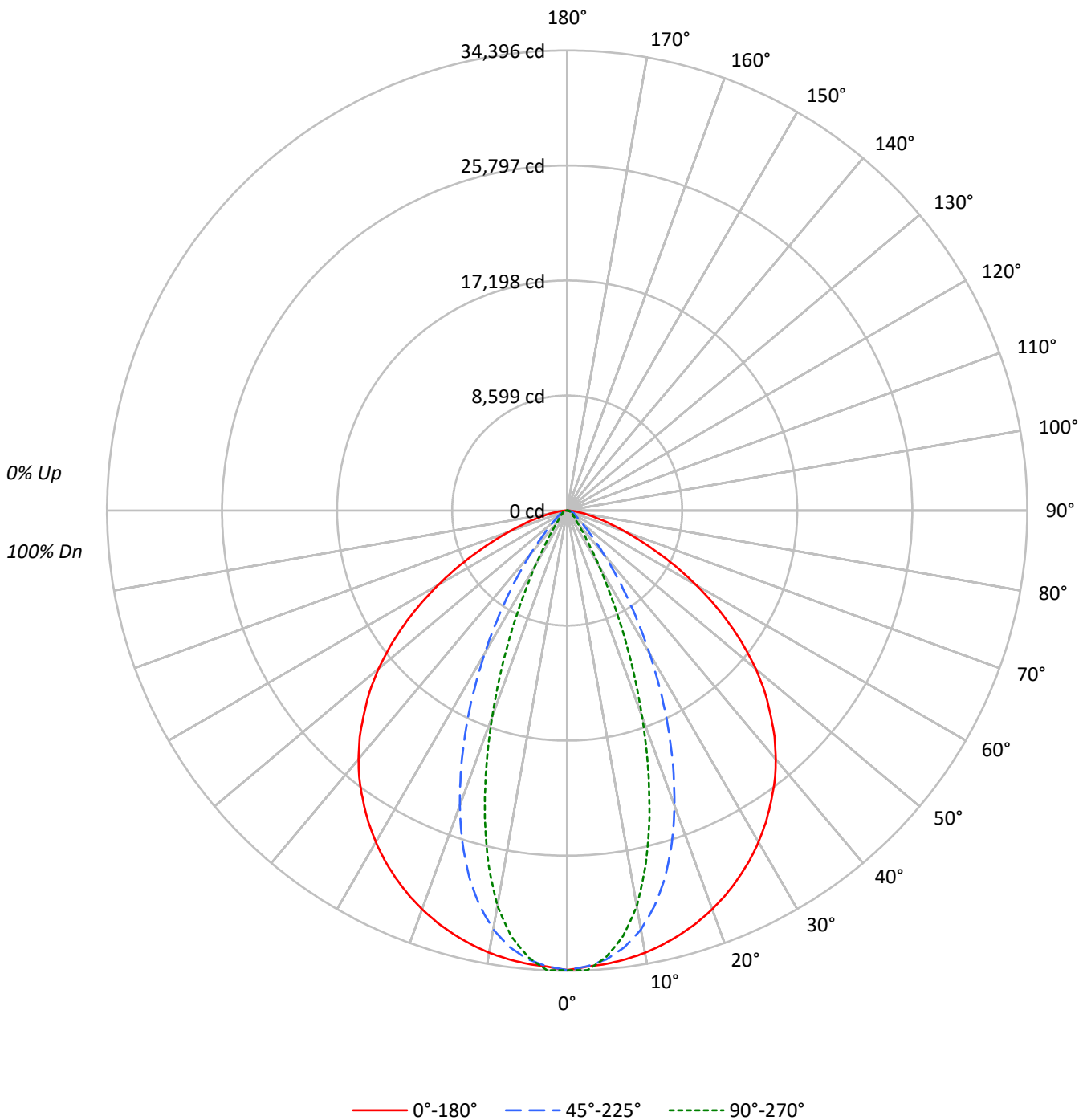
Lumens per Lamp: N/A
Luminaire Lumens: 37604.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46216	46216	46216
5°	45938	45481	45241
10°	45861	43421	40974
15°	45676	39469	33091
20°	45402	33585	23454
25°	44996	26482	14170
30°	44449	19113	7283
35°	43647	12496	3637
40°	42612	7505	2123
45°	40842	4482	1587
50°	38521	2931	1333
55°	34864	2224	1163
60°	29960	1894	1061
65°	24099	1728	1002
70°	18156	1851	996
75°	13355	1759	1025
80°	9771	1752	1121
85°	7317	2123	1453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3163.3	8.4
10°-20°	7869.7	20.9
20°-30°	8716.8	23.2
30°-40°	6983.7	18.6
40°-50°	4985.5	13.3
50°-60°	3202.2	8.5
60°-70°	1735.4	4.6
70°-80°	741.7	2.0
80°-90°	205.7	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°	19749.8	52.5
0°-40°	26733.5	71.1
0°-60°	34921.2	92.9
0°-90°	37604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	37604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34348	34348	34348	34348	34348	
5°	34012	34139	33674	33567	33496	###
15°	32791	31765	28335	25040	23756	9252
25°	30309	26725	17838	11622	9545	13963
35°	26573	19220	7608	3068	2214	16614
45°	21464	11096	2356	1002	834	16544
55°	14862	4961	948	582	496	13245
65°	7570	2037	543	374	315	7580
75°	2569	745	338	235	197	2855
85°	474	197	138	114	94	579
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	34348.5	34348.5	34348.5	34348.5	34348.5
2.5°	34122.4	34335.9	34106.1	34249.0	34395.6
5°	34012.0	34138.7	33673.7	33567.0	33496.4
7.5°	33820.3	33784.1	32910.3	32344.0	32070.8
10°	33567.0	33273.9	31781.4	30536.7	29990.3
12.5°	33205.2	32600.9	30252.6	28067.2	27140.9
15°	32790.9	31765.1	28334.9	25040.5	23756.0
17.5°	32295.2	30788.1	26042.7	21794.8	20099.7
20°	31709.0	29608.6	23455.6	18346.6	16380.1
22.5°	31054.1	28248.1	20685.8	14909.2	12799.7
25°	30308.7	26724.8	17838.2	11622.0	9545.1
27.5°	29503.6	25033.2	15006.9	8683.9	6789.7
30°	28609.9	23202.4	12302.2	6261.5	4687.5
32.5°	27634.8	21255.7	9789.3	4403.5	3205.8
35°	26572.8	19220.4	7607.5	3068.3	2214.4
37.5°	25485.5	17143.5	5745.9	2169.2	1588.4
40°	24260.7	15073.8	4273.2	1588.4	1208.5
42.5°	22945.5	13044.0	3162.4	1223.0	978.8
45°	21463.8	11095.5	2355.5	1002.3	834.0
47.5°	20027.3	9279.1	1789.3	853.9	725.5
50°	18402.7	7640.0	1400.3	745.4	636.8
52.5°	16678.6	6198.2	1136.1	656.7	560.8
55°	14862.2	4960.7	948.0	582.5	495.7
57.5°	13022.3	3929.5	810.5	519.2	441.4
60°	11133.5	3142.5	703.8	465.0	394.4
62.5°	9290.0	2512.9	615.1	417.9	352.8
65°	7569.5	2037.1	542.7	374.5	314.8
67.5°	5979.2	1610.1	506.6	336.5	284.0
70°	4615.1	1253.7	470.4	300.3	253.3
72.5°	3497.1	962.5	416.1	267.8	224.3
75°	2569.0	745.4	338.3	235.2	197.2
77.5°	1838.1	573.5	275.0	204.4	170.1
80°	1261.0	427.0	226.1	175.5	144.7
82.5°	819.5	302.1	182.7	144.7	119.4
85°	474.0	197.2	137.5	114.0	94.1
87.5°	204.4	108.5	94.1	85.0	72.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)