

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-L750-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-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

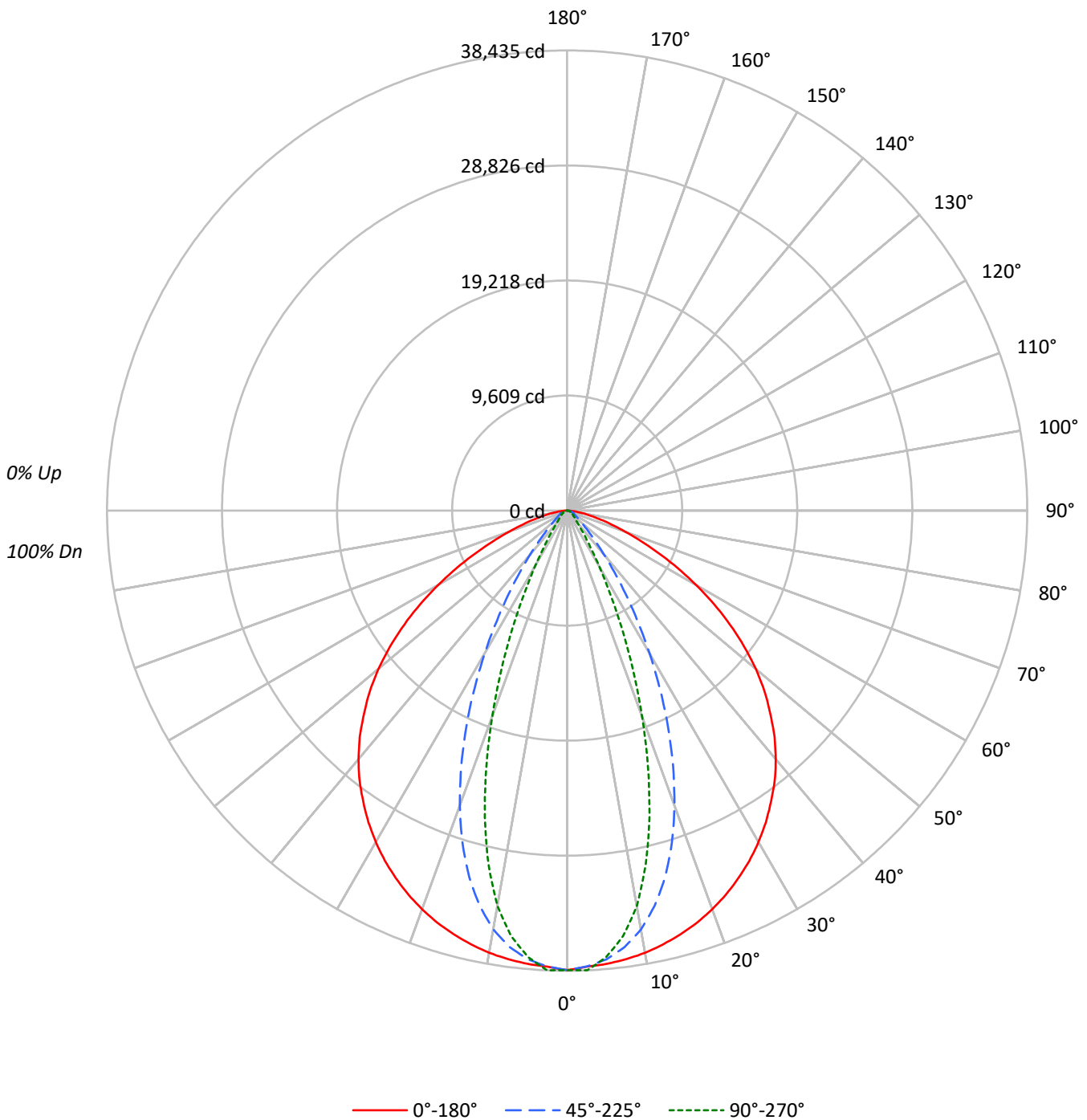
Lumens per Lamp: N/A
Luminaire Lumens: 42020.0 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	51643	51643	51643
5°	51332	50822	50554
10°	51246	48520	45786
15°	51040	44104	36977
20°	50734	37529	26208
25°	50280	29592	15835
30°	49669	21358	8138
35°	48773	13963	4064
40°	47616	8387	2372
45°	45638	5008	1773
50°	43044	3275	1490
55°	38958	2485	1299
60°	33478	2116	1186
65°	26929	1931	1120
70°	20288	2068	1113
75°	14924	1965	1146
80°	10918	1958	1253
85°	8177	2371	1623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3534.8	8.4
10°-20°	8793.8	20.9
20°-30°	9740.5	23.2
30°-40°	7803.8	18.6
40°-50°	5570.9	13.3
50°-60°	3578.3	8.5
60°-70°	1939.2	4.6
70°-80°	828.8	2.0
80°-90°	229.9	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°	22069.1	52.5
0°-40°	29872.9	71.1
0°-60°	39022.1	92.9
0°-90°	42020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	38382	38382	38382	38382	38382	
5°	38006	38148	37628	37509	37430	###
15°	36642	35495	31662	27981	26546	10338
25°	33868	29863	19933	12987	10666	15602
35°	29693	21478	8501	3429	2474	18566
45°	23984	12398	2632	1120	932	18487
55°	16608	5543	1059	651	554	14800
65°	8458	2276	606	418	352	8470
75°	2871	833	378	263	220	3190
85°	530	220	154	127	105	647
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	38382.2	38382.2	38382.2	38382.2	38382.2
2.5°	38129.5	38368.1	38111.3	38271.0	38434.8
5°	38006.2	38147.7	37628.2	37508.9	37430.1
7.5°	37791.9	37751.5	36775.1	36142.3	35837.0
10°	37508.9	37181.4	35513.6	34122.7	33512.2
12.5°	37104.6	36429.4	33805.3	31363.2	30328.2
15°	36641.6	35495.4	31662.4	27981.1	26545.7
17.5°	36087.7	34403.7	29101.0	24354.3	22460.1
20°	35432.7	33085.6	26210.1	20501.1	18303.6
22.5°	34700.9	31565.4	23115.1	16660.1	14302.9
25°	33868.0	29863.2	19933.0	12986.8	10666.0
27.5°	32968.4	27973.0	16769.2	9703.7	7587.1
30°	31969.7	25927.1	13746.9	6996.8	5238.0
32.5°	30880.0	23751.9	10938.9	4920.6	3582.3
35°	29693.4	21477.6	8500.9	3428.6	2474.4
37.5°	28478.4	19156.7	6420.6	2423.9	1775.0
40°	27109.8	16844.0	4775.0	1775.0	1350.4
42.5°	25640.0	14575.8	3533.8	1366.6	1093.7
45°	23984.3	12398.5	2632.1	1120.0	932.0
47.5°	22379.2	10368.8	1999.4	954.2	810.7
50°	20563.8	8537.2	1564.7	832.9	711.6
52.5°	18637.2	6926.0	1269.6	733.8	626.7
55°	16607.5	5543.2	1059.3	651.0	553.9
57.5°	14551.5	4390.9	905.7	580.2	493.3
60°	12441.0	3511.5	786.4	519.6	440.7
62.5°	10381.0	2808.0	687.3	467.0	394.2
65°	8458.4	2276.3	606.5	418.5	351.8
67.5°	6681.4	1799.2	566.1	376.0	317.4
70°	5157.1	1401.0	525.6	335.6	283.0
72.5°	3907.8	1075.5	465.0	299.2	250.7
75°	2870.7	832.9	378.0	262.8	220.4
77.5°	2054.0	640.8	307.3	228.4	190.0
80°	1409.1	477.1	252.7	196.1	161.7
82.5°	915.8	337.6	204.2	161.7	133.4
85°	529.7	220.4	153.6	127.4	105.1
87.5°	228.4	121.3	105.1	95.0	80.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)