

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-LD5-24SE-W-AI-UNV-L750-ED2-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-LD5-24SE-W-AI-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

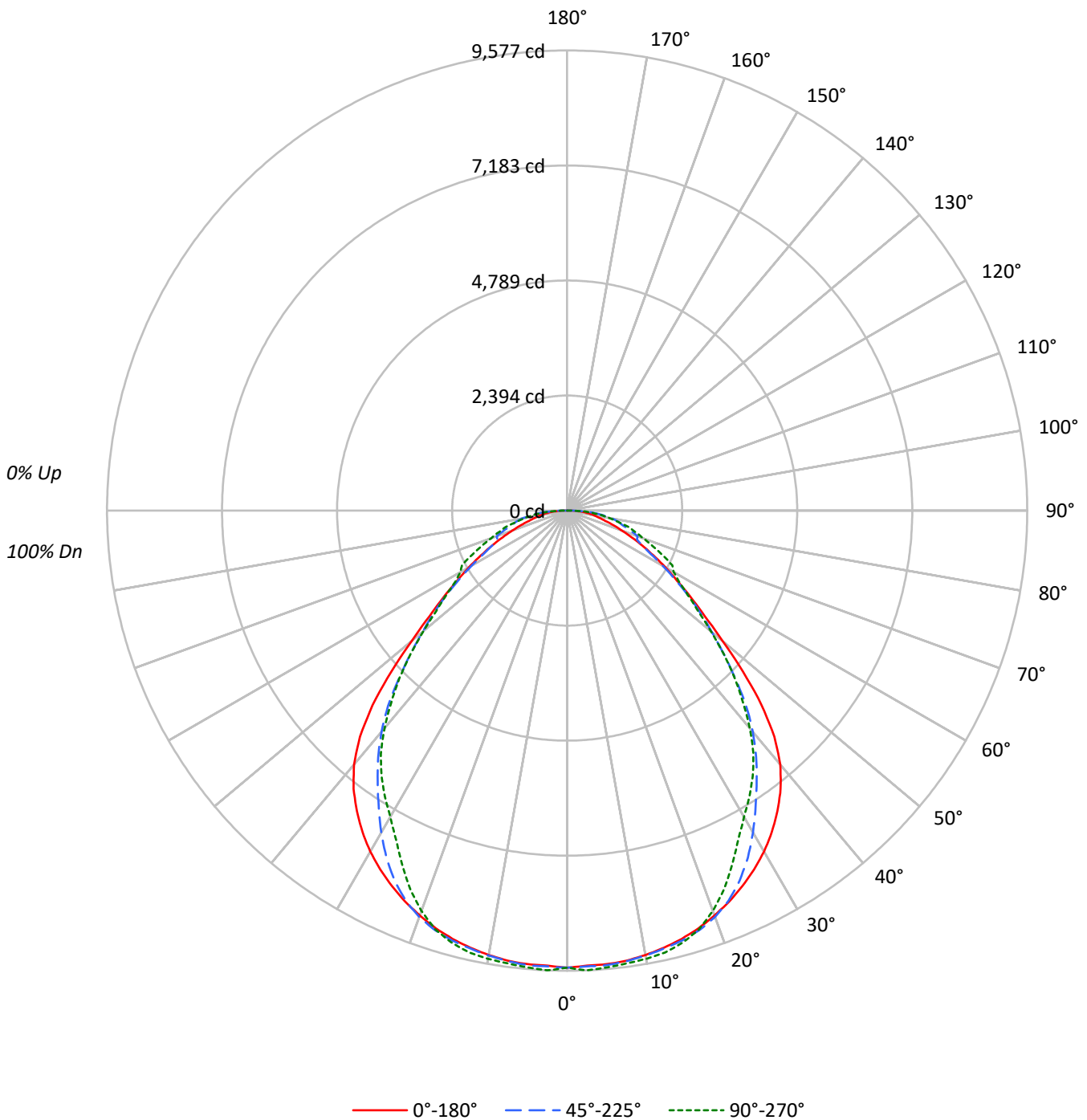
Lumens per Lamp: N/A
Luminaire Lumens: 22020.0 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 154
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°	12800	12800	12800
5°	12800	12827	12890
10°	12831	12847	12942
15°	12851	12899	12962
20°	12838	12886	12695
25°	12806	12614	12065
30°	12730	12019	11433
35°	12538	11296	11061
40°	12119	10562	10388
45°	10893	9431	9396
50°	8835	8215	8158
55°	7336	7199	7197
60°	6352	6166	6893
65°	5505	5470	6948
70°	4746	6137	6624
75°	4256	6289	6905
80°	4424	7404	6928
85°	5022	8531	7916



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.8	4.1
10°-20°	2616.0	11.9
20°-30°	3885.3	17.6
30°-40°	4410.9	20.0
40°-50°	3943.2	17.9
50°-60°	2726.3	12.4
60°-70°	1799.0	8.2
70°-80°	1213.7	5.5
80°-90°	519.8	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°	7407.1	33.6
0°-40°	11818.0	53.7
0°-60°	18487.5	84.0
0°-90°	22020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9513	9513	9513	9513	9513	
5°	9477	9535	9497	9536	9544	902
15°	9226	9270	9260	9312	9305	2604
25°	8626	8708	8496	8243	8127	3975
35°	7634	7473	6877	6777	6734	4760
45°	5725	5240	4956	4994	4938	4353
55°	3127	2855	3069	3026	3068	2841
65°	1729	1535	1718	2009	2182	1725
75°	819	1030	1210	1293	1328	894
85°	325	452	553	556	513	339
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9513.3	9513.3	9513.3	9513.3	9513.3
2.5°	9481.0	9540.3	9496.1	9537.0	9576.9
5°	9476.7	9534.9	9497.2	9535.9	9543.5
7.5°	9449.8	9503.6	9459.5	9497.2	9505.8
10°	9391.6	9455.1	9403.4	9461.6	9472.4
12.5°	9316.2	9380.8	9335.6	9415.3	9419.6
15°	9225.7	9269.9	9260.2	9311.9	9305.4
17.5°	9111.5	9162.1	9154.6	9167.5	9137.4
20°	8966.1	9023.2	8999.5	8940.2	8865.9
22.5°	8809.9	8878.8	8785.1	8635.4	8530.9
25°	8625.7	8707.5	8496.4	8243.2	8126.9
27.5°	8422.1	8495.3	8144.1	7833.9	7713.2
30°	8193.7	8224.9	7735.8	7440.7	7358.8
32.5°	7929.7	7884.5	7299.5	7104.6	7057.2
35°	7633.5	7473.0	6877.3	6777.1	6734.0
37.5°	7299.5	7005.4	6460.4	6414.0	6368.8
40°	6899.9	6465.7	6013.3	5983.1	5914.2
42.5°	6383.9	5878.6	5516.7	5481.1	5419.7
45°	5724.6	5239.8	4956.5	4994.2	4938.2
47.5°	4966.2	4598.8	4418.9	4522.4	4418.9
50°	4220.7	3974.0	3924.5	4018.2	3897.5
52.5°	3609.9	3388.0	3490.3	3506.5	3434.3
55°	3127.3	2854.8	3069.1	3026.0	3068.0
57.5°	2707.2	2402.3	2666.2	2616.7	2761.0
60°	2360.3	2017.7	2291.3	2280.6	2561.7
62.5°	2019.9	1746.2	1966.0	2124.4	2470.2
65°	1729.0	1535.1	1718.2	2009.1	2182.5
67.5°	1450.0	1376.7	1571.7	1733.3	1922.9
70°	1206.5	1244.2	1559.9	1529.7	1683.8
72.5°	1001.9	1130.1	1376.7	1382.1	1490.9
75°	818.7	1029.9	1209.8	1292.7	1328.3
77.5°	680.8	934.0	1092.3	1121.4	1087.0
80°	571.0	823.0	955.5	942.6	894.1
82.5°	461.1	623.7	753.0	764.9	707.8
85°	325.3	452.5	552.6	555.9	512.8
87.5°	174.5	279.0	335.0	344.7	318.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)