

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-LD5-24HE-W-CLI-UNV-L740-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 (P23766)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-24HE-W-CLI-UNV-L740-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

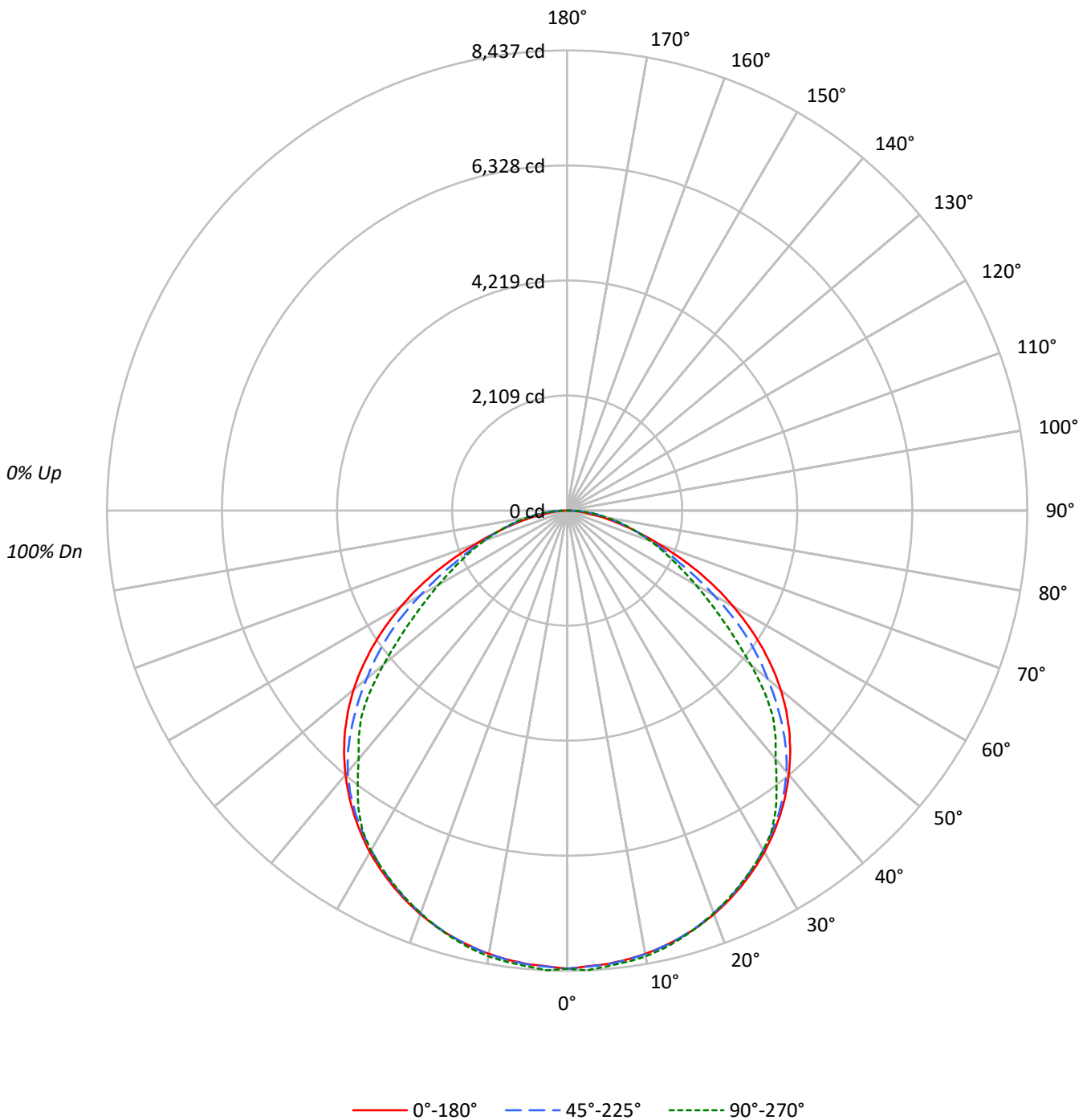
Lumens per Lamp: N/A  
Luminaire Lumens: 22564.0 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 146.3  
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	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11300	11300	11300
5°	11270	11278	11328
10°	11276	11282	11341
15°	11277	11276	11303
20°	11275	11249	11251
25°	11257	11215	11202
30°	11239	11172	11178
35°	11187	11117	10960
40°	11107	10993	10439
45°	10966	10615	10151
50°	10702	10050	9193
55°	10215	9399	8129
60°	9480	8386	7331
65°	8426	7261	6741
70°	6993	6489	6354
75°	5656	5938	6012
80°	4492	5680	5656
85°	3518	6101	5822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	796.5	3.5
10°-20°	2291.0	10.2
20°-30°	3493.3	15.5
30°-40°	4226.4	18.7
40°-50°	4281.0	19.0
50°-60°	3538.3	15.7
60°-70°	2337.0	10.4
70°-80°	1218.6	5.4
80°-90°	382.0	1.7
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°	6580.7	29.2
0°-40°	10807.1	47.9
0°-60°	18626.4	82.5
0°-90°	22564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22564.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8398	8398	8398	8398	8398	
5°	8344	8394	8350	8386	8387	794
15°	8096	8137	8095	8120	8114	2286
25°	7583	7613	7555	7574	7546	3496
35°	6810	6820	6768	6759	6672	4260
45°	5763	5748	5578	5405	5334	4438
55°	4354	4290	4007	3618	3465	3881
65°	2647	2570	2281	2132	2117	2614
75°	1088	1107	1142	1157	1156	1185
85°	228	293	395	392	377	277
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8398.4	8398.4	8398.4	8398.4	8398.4
2.5°	8363.2	8412.6	8371.2	8407.5	8436.8
5°	8344.0	8394.4	8350.1	8386.3	8387.4
7.5°	8306.7	8357.1	8311.7	8348.0	8347.0
10°	8253.3	8300.7	8257.3	8300.7	8300.7
12.5°	8180.7	8227.1	8184.7	8225.0	8219.0
15°	8096.0	8137.3	8095.0	8120.2	8114.1
17.5°	7996.2	8033.5	7986.1	8007.3	7995.2
20°	7874.2	7908.5	7856.0	7883.2	7858.0
22.5°	7737.1	7769.3	7715.9	7736.0	7707.8
25°	7582.8	7613.0	7554.6	7573.7	7545.5
27.5°	7416.4	7443.7	7378.1	7401.3	7379.1
30°	7234.0	7247.1	7190.6	7220.9	7194.6
32.5°	7030.3	7038.4	6989.0	7016.2	6971.8
35°	6810.5	6819.6	6768.2	6759.1	6672.4
37.5°	6575.6	6579.6	6531.2	6449.6	6306.4
40°	6323.5	6321.5	6259.0	6070.5	5943.4
42.5°	6054.3	6053.3	5943.4	5728.7	5656.1
45°	5763.0	5747.8	5578.5	5405.1	5334.5
47.5°	5450.4	5434.3	5197.4	5059.2	4898.9
50°	5112.7	5084.4	4801.1	4612.6	4391.8
52.5°	4748.7	4705.3	4417.0	4112.5	3903.8
55°	4354.5	4290.0	4006.7	3617.5	3465.2
57.5°	3944.1	3848.4	3573.1	3194.0	3070.0
60°	3522.7	3415.8	3116.4	2804.9	2724.2
62.5°	3089.2	2983.3	2677.8	2442.9	2398.5
65°	2646.6	2569.9	2280.6	2132.4	2117.3
67.5°	2192.9	2165.7	1944.9	1869.2	1863.2
70°	1777.5	1772.4	1649.4	1611.1	1615.2
72.5°	1420.6	1414.5	1396.4	1377.2	1378.2
75°	1087.9	1107.0	1142.3	1157.4	1156.4
77.5°	811.6	850.9	925.5	955.8	950.7
80°	579.7	638.2	733.0	761.2	729.9
82.5°	386.1	447.6	559.6	563.6	538.4
85°	227.9	293.4	395.2	392.2	377.1
87.5°	112.9	176.4	236.9	226.8	216.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)