

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-LD5-12HE-W-AI-UNV-L740-ED1-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-LD5-12HE-W-AI-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

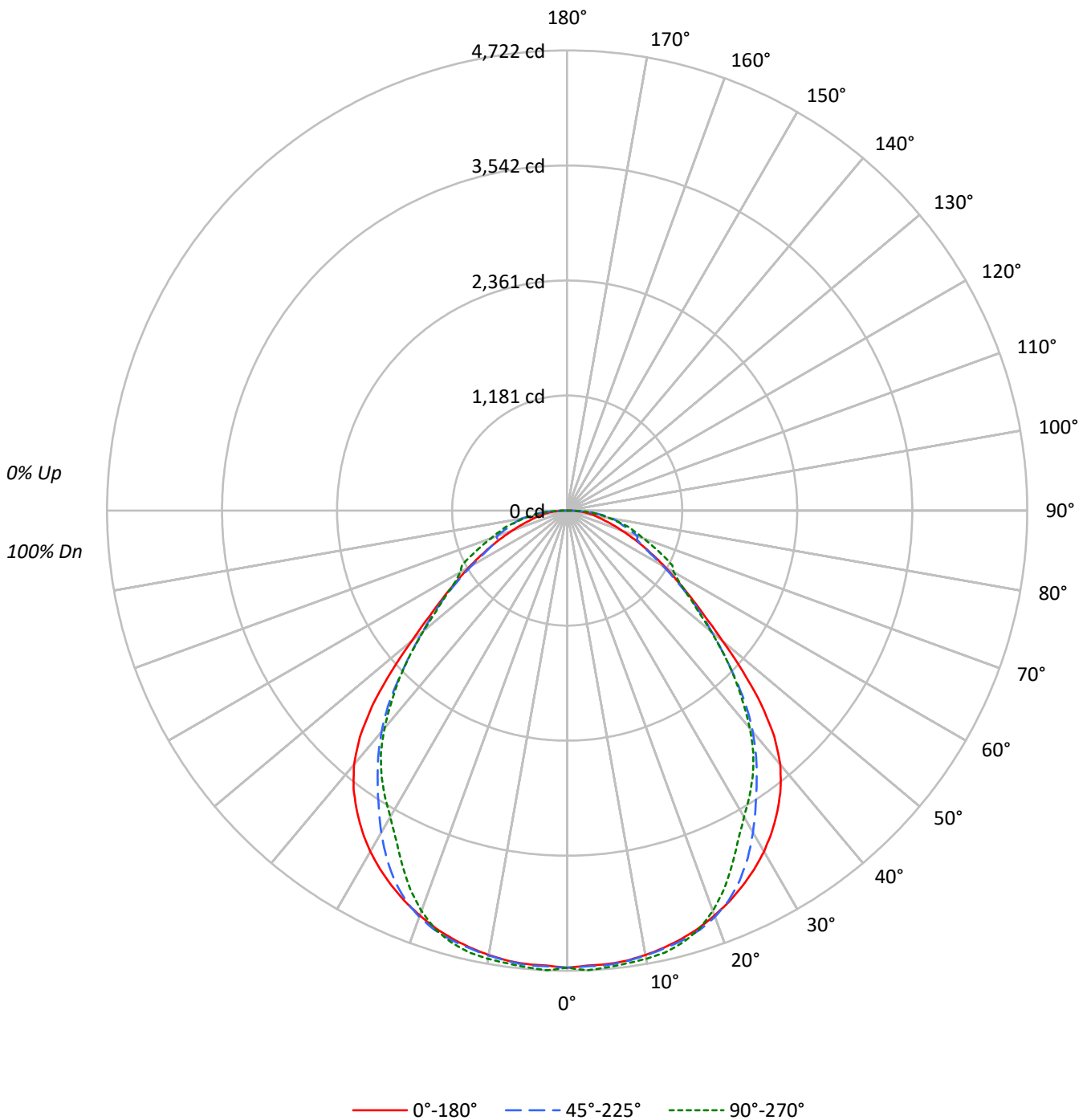
Lumens per Lamp: N/A
Luminaire Lumens: 10857.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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°	6311	6311	6311
5°	6311	6324	6355
10°	6326	6334	6381
15°	6336	6360	6391
20°	6330	6353	6259
25°	6314	6219	5949
30°	6277	5926	5637
35°	6182	5570	5454
40°	5975	5208	5122
45°	5371	4650	4633
50°	4356	4050	4023
55°	3617	3550	3548
60°	3131	3040	3399
65°	2714	2697	3426
70°	2340	3026	3266
75°	2099	3101	3405
80°	2181	3650	3416
85°	2476	4207	3903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.6	4.1
10°-20°	1289.8	11.9
20°-30°	1915.7	17.6
30°-40°	2174.8	20.0
40°-50°	1944.2	17.9
50°-60°	1344.2	12.4
60°-70°	887.0	8.2
70°-80°	598.4	5.5
80°-90°	256.3	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°	3652.1	33.6
0°-40°	5826.9	53.7
0°-60°	9115.3	84.0
0°-90°	10857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4691	4691	4691	4691	4691	
5°	4672	4701	4683	4702	4705	445
15°	4549	4570	4566	4591	4588	1284
25°	4253	4293	4189	4064	4007	1960
35°	3764	3685	3391	3341	3320	2347
45°	2822	2584	2444	2462	2435	2146
55°	1542	1408	1513	1492	1513	1401
65°	852	757	847	991	1076	851
75°	404	508	596	637	655	441
85°	160	223	272	274	253	167
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4690.6	4690.6	4690.6	4690.6	4690.6
2.5°	4674.6	4703.8	4682.1	4702.2	4721.9
5°	4672.5	4701.2	4682.6	4701.7	4705.4
7.5°	4659.2	4685.8	4664.0	4682.6	4686.8
10°	4630.5	4661.9	4636.4	4665.1	4670.4
12.5°	4593.4	4625.2	4602.9	4642.2	4644.3
15°	4548.7	4570.5	4565.7	4591.2	4588.0
17.5°	4492.4	4517.4	4513.7	4520.1	4505.2
20°	4420.7	4448.9	4437.2	4408.0	4371.3
22.5°	4343.7	4377.7	4331.5	4257.7	4206.2
25°	4252.9	4293.3	4189.2	4064.3	4007.0
27.5°	4152.5	4188.6	4015.5	3862.5	3803.0
30°	4039.9	4055.3	3814.2	3668.6	3628.3
32.5°	3909.8	3887.5	3599.1	3502.9	3479.5
35°	3763.7	3684.6	3390.8	3341.4	3320.2
37.5°	3599.1	3454.0	3185.3	3162.4	3140.1
40°	3402.0	3187.9	2964.9	2950.0	2916.0
42.5°	3147.6	2898.5	2720.0	2702.5	2672.2
45°	2822.5	2583.5	2443.8	2462.4	2434.8
47.5°	2448.6	2267.5	2178.8	2229.8	2178.8
50°	2081.0	1959.4	1935.0	1981.2	1921.7
52.5°	1779.9	1670.5	1720.9	1728.9	1693.3
55°	1541.9	1407.5	1513.2	1492.0	1512.7
57.5°	1334.8	1184.5	1314.6	1290.2	1361.3
60°	1163.7	994.8	1129.7	1124.4	1263.1
62.5°	995.9	861.0	969.3	1047.4	1217.9
65°	852.5	756.9	847.2	990.6	1076.1
67.5°	714.9	678.8	774.9	854.6	948.1
70°	594.9	613.5	769.1	754.2	830.2
72.5°	494.0	557.2	678.8	681.5	735.1
75°	403.7	507.8	596.5	637.4	654.9
77.5°	335.7	460.5	538.6	552.9	535.9
80°	281.5	405.8	471.1	464.8	440.9
82.5°	227.3	307.5	371.3	377.1	349.0
85°	160.4	223.1	272.5	274.1	252.8
87.5°	86.0	137.6	165.2	170.0	157.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)