

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-UNV-L750-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 (P23760)  
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-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

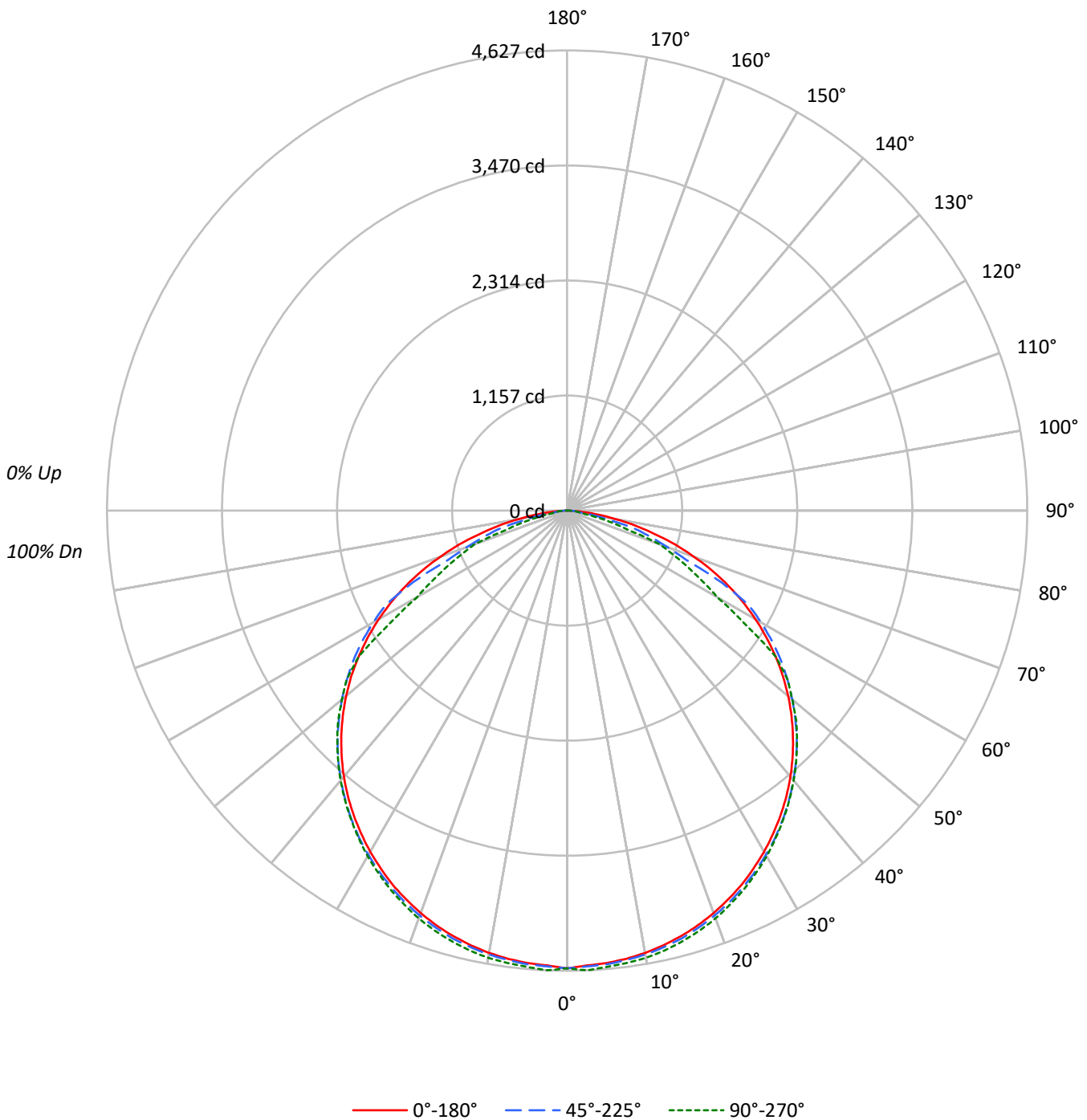
Lumens per Lamp: N/A  
Luminaire Lumens: 13287.0 lumens  
Efficiency: N/A  
Efficacy: 183.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		36	30	26	24

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

	0°	45°	90°
0°	6193	6193	6193
5°	6167	6184	6219
10°	6171	6192	6239
15°	6169	6202	6245
20°	6166	6205	6249
25°	6164	6208	6242
30°	6153	6213	6236
35°	6145	6216	6224
40°	6134	6215	6225
45°	6111	6213	6220
50°	6074	6186	6185
55°	6003	6153	6001
60°	5892	6063	4695
65°	5695	5457	4230
70°	5336	4198	3899
75°	4724	3660	2430
80°	3890	2155	1086
85°	2564	1320	1422



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.7	3.3
10°-20°	1260.1	9.5
20°-30°	1931.8	14.5
30°-40°	2369.2	17.8
40°-50°	2515.7	18.9
50°-60°	2297.8	17.3
60°-70°	1600.2	12.0
70°-80°	746.3	5.6
80°-90°	129.1	1.0
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°	3628.7	27.3
0°-40°	5997.9	45.1
0°-60°	10811.4	81.4
0°-90°	13287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13287.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4602	4602	4602	4602	4602	
5°	4566	4598	4579	4601	4605	434
15°	4429	4460	4452	4479	4483	1251
25°	4152	4188	4182	4212	4205	1913
35°	3741	3784	3784	3810	3789	2341
45°	3211	3260	3265	3286	3269	2477
55°	2559	2610	2623	2628	2558	2286
65°	1789	1844	1714	1363	1329	1765
75°	909	966	704	488	467	971
85°	166	109	86	92	92	215
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4602.5	4602.5	4602.5	4602.5	4602.5
2.5°	4578.2	4607.5	4588.1	4609.1	4626.8
5°	4566.1	4598.1	4578.8	4600.8	4604.7
7.5°	4546.2	4576.6	4558.9	4583.2	4589.3
10°	4516.4	4546.2	4532.4	4561.1	4566.6
12.5°	4476.1	4506.5	4496.0	4527.5	4531.3
15°	4428.7	4459.6	4452.4	4479.4	4483.3
17.5°	4373.0	4405.0	4396.7	4425.4	4428.1
20°	4306.2	4340.9	4333.8	4367.4	4364.1
22.5°	4231.1	4268.1	4262.6	4296.3	4286.3
25°	4151.7	4188.1	4181.5	4212.4	4204.7
27.5°	4058.4	4098.7	4092.6	4122.4	4110.3
30°	3960.2	4001.0	3998.8	4025.9	4013.7
32.5°	3854.3	3897.9	3895.7	3922.1	3903.4
35°	3741.1	3784.2	3784.2	3809.6	3789.2
37.5°	3621.4	3665.0	3665.6	3689.8	3670.5
40°	3492.3	3535.9	3538.6	3561.8	3544.2
42.5°	3356.5	3404.0	3406.2	3427.2	3410.6
45°	3211.4	3260.0	3265.0	3285.9	3268.8
47.5°	3059.7	3108.8	3113.2	3135.8	3123.7
50°	2901.9	2949.3	2955.4	2974.2	2954.8
52.5°	2735.2	2783.8	2792.1	2803.7	2794.8
55°	2559.2	2610.5	2623.2	2627.6	2558.1
57.5°	2377.1	2429.5	2441.7	2340.1	2116.7
60°	2189.5	2241.4	2253.0	1903.7	1744.8
62.5°	1994.2	2044.9	2057.6	1577.6	1526.8
65°	1788.9	1844.1	1713.9	1362.9	1328.7
67.5°	1578.1	1635.0	1296.2	1168.1	1147.7
70°	1356.3	1413.7	1067.2	996.0	991.0
72.5°	1143.3	1185.8	875.7	754.9	635.7
75°	908.8	966.2	704.1	487.8	467.4
77.5°	704.6	609.2	424.9	357.6	282.0
80°	502.1	407.2	278.1	148.4	140.2
82.5°	318.4	266.0	109.3	112.0	117.0
85°	166.1	109.3	85.5	91.6	92.1
87.5°	53.5	46.9	51.3	50.8	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)