

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-LD5-12SE-W-A-UNV-L735-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 (P23761)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-12SE-W-A-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

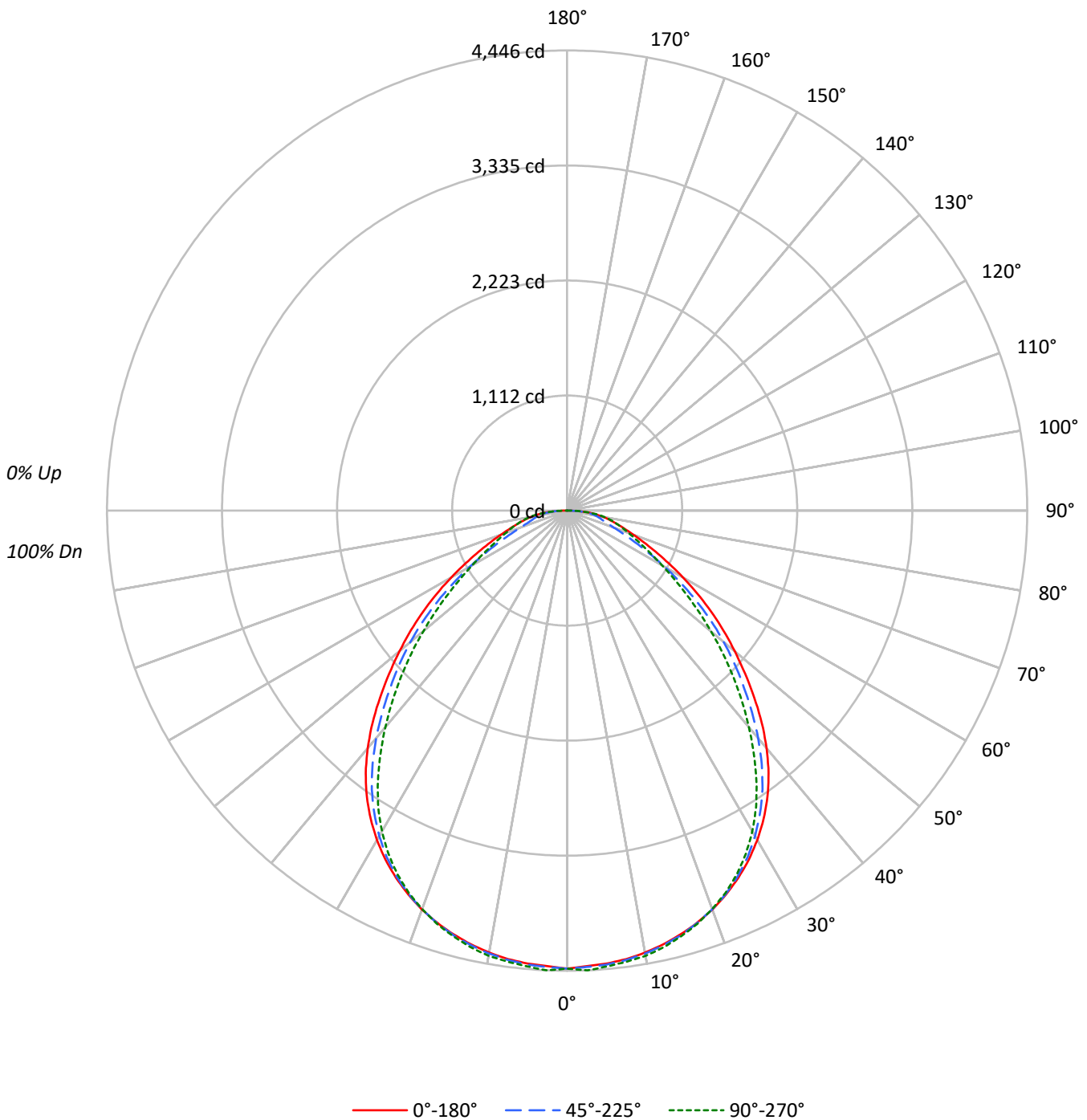
Lumens per Lamp: N/A  
Luminaire Lumens: 10165.0 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 76.6  
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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

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

	0°	45°	90°
0°	5954	5954	5954
5°	5933	5946	5970
10°	5924	5938	5968
15°	5905	5916	5930
20°	5874	5869	5865
25°	5810	5790	5757
30°	5709	5640	5558
35°	5544	5404	5238
40°	5268	5042	4800
45°	4867	4595	4317
50°	4424	4138	3797
55°	3978	3582	3282
60°	3481	2928	2848
65°	3001	2302	2571
70°	2676	1879	2478
75°	2563	1834	2589
80°	2772	2170	2885
85°	3112	2612	3143



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.4	4.1
10°-20°	1200.2	11.8
20°-30°	1795.4	17.7
30°-40°	2048.4	20.2
40°-50°	1864.7	18.3
50°-60°	1369.2	13.5
60°-70°	808.5	8.0
70°-80°	463.3	4.6
80°-90°	195.9	1.9
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°	3415.1	33.6
0°-40°	5463.5	53.7
0°-60°	8697.3	85.6
0°-90°	10165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10165.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4425	4425	4425	4425	4425	
5°	4393	4420	4402	4420	4420	418
15°	4239	4262	4247	4262	4257	1196
25°	3914	3928	3900	3898	3878	1801
35°	3375	3358	3290	3234	3189	2103
45°	2558	2543	2415	2307	2269	1971
55°	1696	1617	1527	1416	1399	1516
65°	943	823	723	774	807	949
75°	493	423	353	460	498	531
85°	202	186	169	200	204	211
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4425.0	4425.0	4425.0	4425.0	4425.0
2.5°	4404.5	4430.0	4414.0	4431.5	4446.5
5°	4392.6	4420.0	4402.5	4420.0	4420.5
7.5°	4370.6	4396.1	4379.1	4398.0	4396.1
10°	4336.2	4361.6	4346.1	4366.6	4368.1
12.5°	4292.3	4316.7	4300.7	4324.2	4320.2
15°	4238.9	4262.3	4247.3	4262.3	4257.3
17.5°	4176.0	4197.4	4178.0	4194.4	4186.0
20°	4102.1	4120.1	4099.1	4114.6	4096.1
22.5°	4013.8	4029.8	4007.8	4016.3	3997.3
25°	3913.5	3927.5	3900.0	3898.5	3878.0
27.5°	3801.7	3809.2	3774.2	3762.3	3738.8
30°	3674.9	3676.9	3630.5	3608.1	3577.6
32.5°	3532.7	3527.7	3468.3	3434.9	3397.5
35°	3375.0	3358.5	3290.2	3233.8	3188.9
37.5°	3196.9	3170.9	3089.1	3005.7	2962.8
40°	2999.2	2968.8	2870.5	2767.2	2732.7
42.5°	2784.1	2758.2	2642.4	2534.6	2500.7
45°	2557.6	2542.6	2414.9	2306.6	2268.6
47.5°	2331.0	2320.0	2195.3	2085.0	2039.1
50°	2113.4	2089.5	1976.7	1855.9	1814.0
52.5°	1902.3	1853.4	1754.1	1630.4	1599.4
55°	1695.7	1617.4	1527.1	1416.3	1399.3
57.5°	1491.1	1389.8	1302.0	1219.2	1218.7
60°	1293.5	1177.7	1087.9	1044.5	1058.5
62.5°	1108.4	989.6	892.3	895.3	920.7
65°	942.7	822.9	723.1	773.5	807.4
67.5°	800.5	686.2	584.9	678.7	711.1
70°	680.2	576.9	477.6	594.9	629.8
72.5°	578.9	492.1	402.7	525.0	560.4
75°	493.1	422.7	352.8	460.1	498.0
77.5°	423.2	360.8	316.4	398.2	437.7
80°	357.8	302.9	280.0	338.3	372.3
82.5°	283.5	245.5	232.1	275.0	292.4
85°	201.6	186.1	169.2	199.6	203.6
87.5°	110.8	114.8	94.8	114.8	115.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)