

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-LD5-60HE-W-UNV-L835-ED4-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-LD5-60HE-W-UNV-L835-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

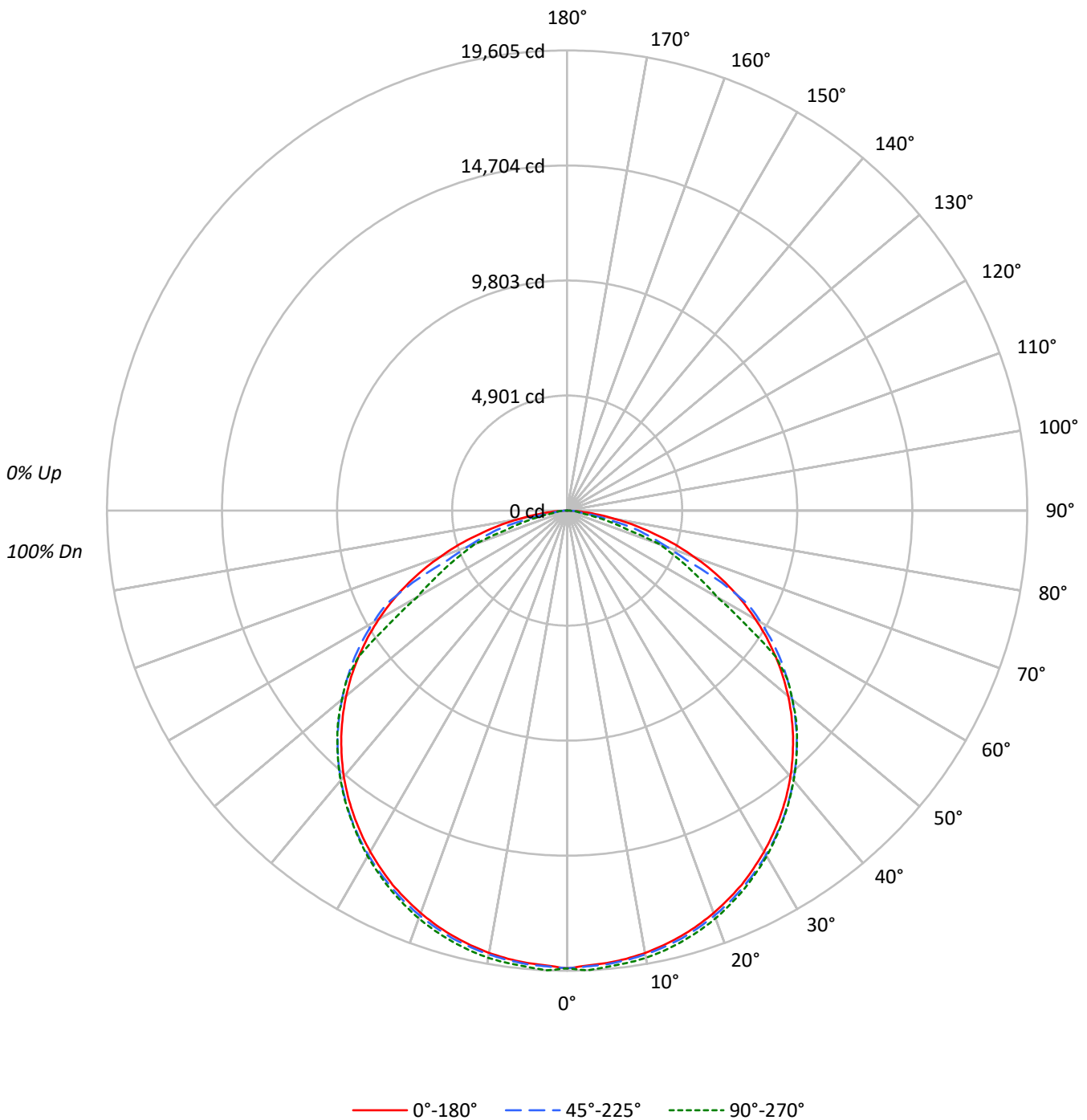
Lumens per Lamp: N/A  
Luminaire Lumens: 56301.0 lumens  
Efficiency: N/A  
Efficacy: 152.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 369  
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°	26240	26240	26240
5°	26132	26204	26353
10°	26146	26239	26437
15°	26140	26280	26462
20°	26126	26294	26478
25°	26117	26304	26450
30°	26071	26325	26423
35°	26038	26338	26372
40°	25991	26336	26377
45°	25893	26325	26356
50°	25738	26213	26208
55°	25438	26074	25427
60°	24966	25689	19895
65°	24133	23121	17925
70°	22609	17789	16519
75°	20019	15509	10295
80°	16486	9131	4602
85°	10865	5595	6028



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1850.6	3.3
10°-20°	5339.3	9.5
20°-30°	8185.8	14.5
30°-40°	10039.0	17.8
40°-50°	10659.8	18.9
50°-60°	9736.4	17.3
60°-70°	6780.4	12.0
70°-80°	3162.4	5.6
80°-90°	547.1	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°	15375.8	27.3
0°-40°	25414.8	45.1
0°-60°	45811.1	81.4
0°-90°	56301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56301.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19502	19502	19502	19502	19502	
5°	19348	19483	19402	19495	19512	###
15°	18766	18897	18866	18981	18997	5299
25°	17592	17746	17718	17849	17816	8107
35°	15852	16035	16035	16142	16056	9920
45°	13608	13814	13835	13923	13851	10495
55°	10844	11062	11115	11134	10840	9684
65°	7580	7814	7262	5775	5630	7479
75°	3851	4094	2983	2067	1980	4117
85°	704	463	362	388	390	909
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19502.2	19502.2	19502.2	19502.2	19502.2
2.5°	19399.3	19523.2	19441.4	19530.2	19605.0
5°	19347.8	19483.4	19401.6	19495.1	19511.5
7.5°	19263.7	19392.3	19317.4	19420.3	19446.0
10°	19137.4	19263.7	19205.2	19326.8	19350.2
12.5°	18966.7	19095.3	19050.9	19184.2	19200.5
15°	18765.7	18896.6	18866.2	18980.8	18997.1
17.5°	18529.5	18665.1	18630.0	18751.6	18763.3
20°	18246.6	18393.9	18363.5	18506.1	18492.1
22.5°	17928.6	18085.3	18061.9	18204.5	18162.4
25°	17591.9	17746.2	17718.2	17849.1	17816.4
27.5°	17196.8	17367.5	17341.7	17468.0	17416.6
30°	16780.6	16953.6	16944.3	17058.8	17007.4
32.5°	16331.7	16516.4	16507.0	16619.3	16539.8
35°	15852.4	16034.7	16034.7	16142.3	16055.8
37.5°	15345.0	15529.7	15532.0	15634.9	15553.1
40°	14797.9	14982.6	14994.3	15092.5	15017.7
42.5°	14222.7	14423.8	14433.1	14522.0	14451.8
45°	13607.8	13813.5	13834.6	13923.4	13850.9
47.5°	12964.8	13172.9	13191.6	13287.5	13236.0
50°	12296.1	12497.2	12522.9	12602.4	12520.6
52.5°	11590.0	11795.8	11830.8	11879.9	11842.5
55°	10844.1	11061.6	11115.4	11134.1	10839.5
57.5°	10072.6	10294.7	10346.1	9915.9	8969.0
60°	9277.6	9497.4	9546.5	8066.5	7393.1
62.5°	8449.9	8665.0	8718.8	6684.6	6469.5
65°	7580.1	7814.0	7262.2	5775.1	5630.2
67.5°	6687.0	6927.8	5492.2	4949.8	4863.3
70°	5747.1	5990.2	4521.9	4220.3	4199.2
72.5°	4844.6	5024.6	3710.6	3198.5	2693.5
75°	3850.9	4094.0	2983.4	2066.9	1980.4
77.5°	2985.8	2581.3	1800.3	1515.1	1194.8
80°	2127.7	1725.5	1178.4	629.0	593.9
82.5°	1349.1	1127.0	462.9	474.6	495.7
85°	703.8	462.9	362.4	388.1	390.5
87.5°	226.8	198.7	217.4	215.1	212.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)