

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-LD5-60SE-W-CLI-UNV-L850-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 (P23766)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-60SE-W-CLI-UNV-L850-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

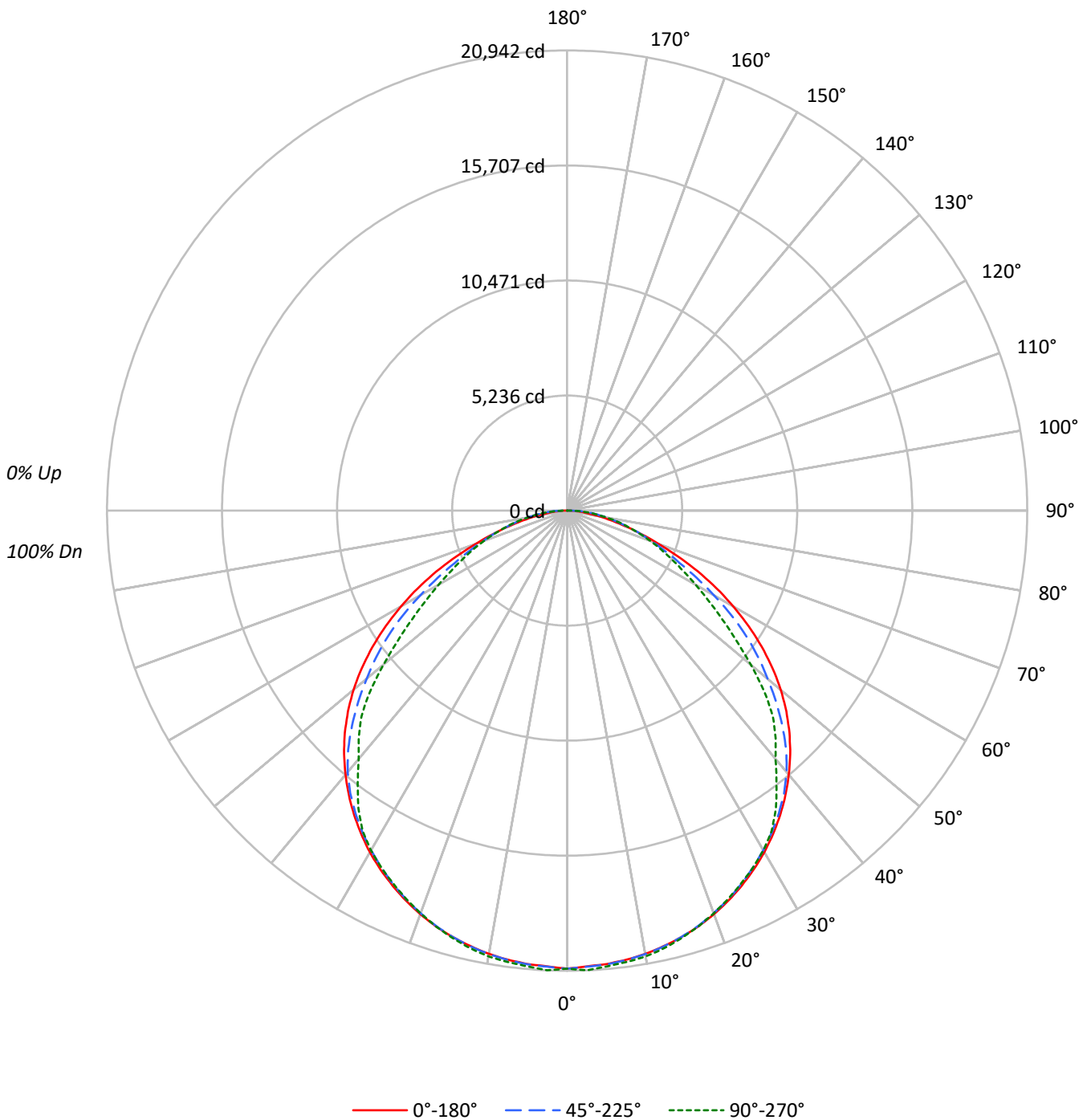
Lumens per Lamp: N/A  
Luminaire Lumens: 56008.0 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 386  
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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	28049	28049	28049
5°	27973	27994	28119
10°	27989	28003	28150
15°	27992	27989	28055
20°	27986	27921	27928
25°	27943	27839	27805
30°	27897	27730	27745
35°	27767	27594	27204
40°	27569	27288	25912
45°	27219	26348	25195
50°	26564	24945	22818
55°	25355	23330	20177
60°	23530	20816	18196
65°	20915	18022	16732
70°	17357	16106	15772
75°	14038	14740	14923
80°	11150	14097	14039
85°	8732	15144	14450



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1977.0	3.5
10°-20°	5686.6	10.2
20°-30°	8671.0	15.5
30°-40°	10490.7	18.7
40°-50°	10626.1	19.0
50°-60°	8782.7	15.7
60°-70°	5800.8	10.4
70°-80°	3024.8	5.4
80°-90°	948.3	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°	16334.6	29.2
0°-40°	26825.2	47.9
0°-60°	46234.1	82.5
0°-90°	56008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56008.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20846	20846	20846	20846	20846	
5°	20711	20836	20726	20816	20819	###
15°	20096	20198	20093	20156	20141	5675
25°	18822	18897	18752	18799	18729	8679
35°	16905	16928	16800	16777	16562	10574
45°	14305	14267	13847	13416	13241	11015
55°	10809	10648	9945	8979	8601	9634
65°	6569	6379	5661	5293	5255	6488
75°	2700	2748	2835	2873	2870	2942
85°	566	728	981	974	936	687
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	20846.5	20846.5	20846.5	20846.5	20846.5
2.5°	20758.9	20881.5	20778.9	20869.0	20941.6
5°	20711.4	20836.5	20726.4	20816.5	20819.0
7.5°	20618.8	20743.9	20631.3	20721.4	20718.9
10°	20486.1	20603.7	20496.1	20603.7	20603.7
12.5°	20305.9	20421.1	20315.9	20416.1	20401.0
15°	20095.7	20198.3	20093.2	20155.8	20140.8
17.5°	19848.0	19940.6	19822.9	19875.5	19845.5
20°	19545.2	19630.2	19500.1	19567.7	19505.1
22.5°	19204.8	19284.9	19152.2	19202.3	19132.2
25°	18821.9	18897.0	18751.8	18799.4	18729.3
27.5°	18409.0	18476.6	18313.9	18371.4	18316.4
30°	17956.0	17988.5	17848.4	17923.5	17858.4
32.5°	17450.5	17470.5	17347.9	17415.5	17305.3
35°	16904.9	16927.5	16799.8	16777.3	16562.1
37.5°	16321.8	16331.8	16211.7	16009.0	15653.6
40°	15696.2	15691.2	15536.0	15068.0	14752.7
42.5°	15028.0	15025.5	14752.7	14219.7	14039.5
45°	14304.7	14267.2	13846.8	13416.3	13241.2
47.5°	13528.9	13488.9	12900.8	12557.9	12160.0
50°	12690.6	12620.5	11917.3	11449.3	10901.2
52.5°	11787.2	11679.5	10963.8	10208.0	9690.0
55°	10808.6	10648.5	9945.3	8979.3	8601.4
57.5°	9790.1	9552.3	8869.1	7928.2	7620.4
60°	8744.0	8478.7	7735.5	6962.2	6762.0
62.5°	7667.9	7405.1	6646.9	6063.8	5953.6
65°	6569.3	6379.1	5660.8	5293.0	5255.4
67.5°	5443.1	5375.5	4827.5	4639.8	4624.8
70°	4412.0	4399.5	4094.2	3999.1	4009.1
72.5°	3526.1	3511.1	3466.1	3418.5	3421.0
75°	2700.3	2747.8	2835.4	2873.0	2870.5
77.5°	2014.6	2112.2	2297.4	2372.4	2359.9
80°	1439.0	1584.1	1819.4	1889.4	1811.9
82.5°	958.5	1111.1	1388.9	1398.9	1336.4
85°	565.6	728.3	981.0	973.5	936.0
87.5°	280.3	438.0	588.1	563.1	538.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)