

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-AI-UNV-L750-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 (P23765)
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-AI-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

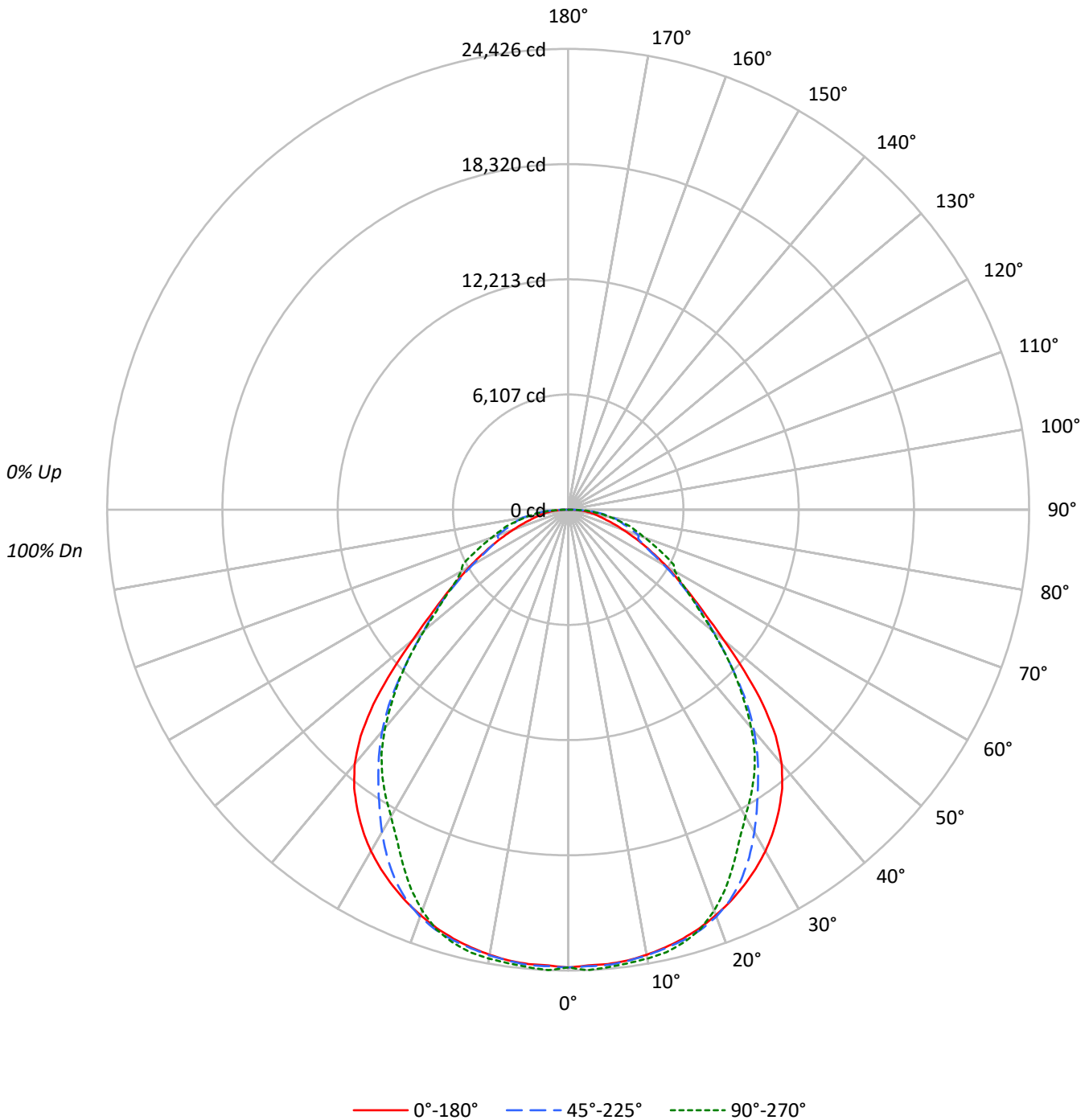
Lumens per Lamp: N/A
Luminaire Lumens: 56163.0 lumens
Efficiency: N/A
Efficacy: 152.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	32647	32647	32647
5°	32646	32716	32876
10°	32727	32768	33008
15°	32777	32899	33060
20°	32744	32866	32378
25°	32661	32172	30772
30°	32468	30654	29160
35°	31980	28811	28211
40°	30910	26938	26494
45°	27783	24055	23966
50°	22534	20952	20808
55°	18711	18363	18356
60°	16200	15727	17582
65°	14040	13952	17723
70°	12106	15651	16894
75°	10856	16041	17612
80°	11283	18884	17670
85°	12810	21760	20191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2310.3	4.1
10°-20°	6672.2	11.9
20°-30°	9909.7	17.6
30°-40°	11250.2	20.0
40°-50°	10057.2	17.9
50°-60°	6953.6	12.4
60°-70°	4588.4	8.2
70°-80°	3095.5	5.5
80°-90°	1325.8	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°	18892.2	33.6
0°-40°	30142.4	53.7
0°-60°	47153.2	84.0
0°-90°	56163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24264	24264	24264	24264	24264	
5°	24171	24319	24223	24322	24341	###
15°	23530	23643	23618	23750	23734	6642
25°	22000	22209	21670	21025	20728	10137
35°	19470	19060	17541	17285	17175	12141
45°	14601	13364	12642	12738	12595	11104
55°	7976	7281	7828	7718	7825	7245
65°	4410	3915	4382	5124	5567	4401
75°	2088	2627	3086	3297	3388	2281
85°	830	1154	1410	1418	1308	865
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24264.2	24264.2	24264.2	24264.2	24264.2
2.5°	24181.7	24332.8	24220.2	24324.6	24426.3
5°	24170.7	24319.1	24222.9	24321.9	24341.1
7.5°	24102.0	24239.4	24126.8	24222.9	24244.9
10°	23953.7	24115.8	23983.9	24132.3	24159.7
12.5°	23761.3	23926.2	23810.8	24014.1	24025.1
15°	23530.5	23643.2	23618.5	23750.3	23733.9
17.5°	23239.3	23368.4	23349.2	23382.2	23305.2
20°	22868.4	23014.0	22953.5	22802.4	22612.8
22.5°	22470.0	22645.8	22406.8	22024.8	21758.3
25°	22000.1	22208.9	21670.4	21024.7	20728.0
27.5°	21480.8	21667.7	20771.9	19980.6	19672.9
30°	20898.3	20978.0	19730.6	18977.7	18768.9
32.5°	20225.2	20109.8	18617.8	18120.5	17999.6
35°	19469.6	19060.2	17540.7	17285.2	17175.3
37.5°	18617.8	17867.7	16477.4	16359.3	16243.9
40°	17598.4	16491.2	15337.2	15260.2	15084.4
42.5°	16282.3	14993.7	14070.5	13979.8	13823.2
45°	14600.8	13364.4	12641.8	12737.9	12595.0
47.5°	12666.5	11729.6	11270.7	11534.5	11270.7
50°	10765.1	10135.9	10009.5	10248.6	9940.9
52.5°	9207.2	8641.2	8902.3	8943.5	8759.4
55°	7976.3	7281.2	7827.9	7718.0	7825.2
57.5°	6904.7	6127.2	6800.3	6673.9	7042.1
60°	6020.0	5146.3	5844.2	5816.7	6533.8
62.5°	5151.8	4453.9	5014.4	5418.3	6300.3
65°	4409.9	3915.3	4382.4	5124.3	5566.7
67.5°	3698.3	3511.4	4008.8	4420.9	4904.5
70°	3077.3	3173.5	3978.5	3901.6	4294.5
72.5°	2555.3	2882.2	3511.4	3525.2	3802.7
75°	2088.2	2626.7	3085.6	3297.1	3387.8
77.5°	1736.5	2382.2	2786.1	2860.3	2772.3
80°	1456.2	2099.2	2437.1	2404.2	2280.5
82.5°	1176.0	1590.9	1920.6	1950.8	1805.2
85°	829.8	1154.0	1409.5	1417.8	1307.9
87.5°	445.1	711.6	854.5	879.2	813.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)