

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-CLI-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 (P23766)
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-CLI-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

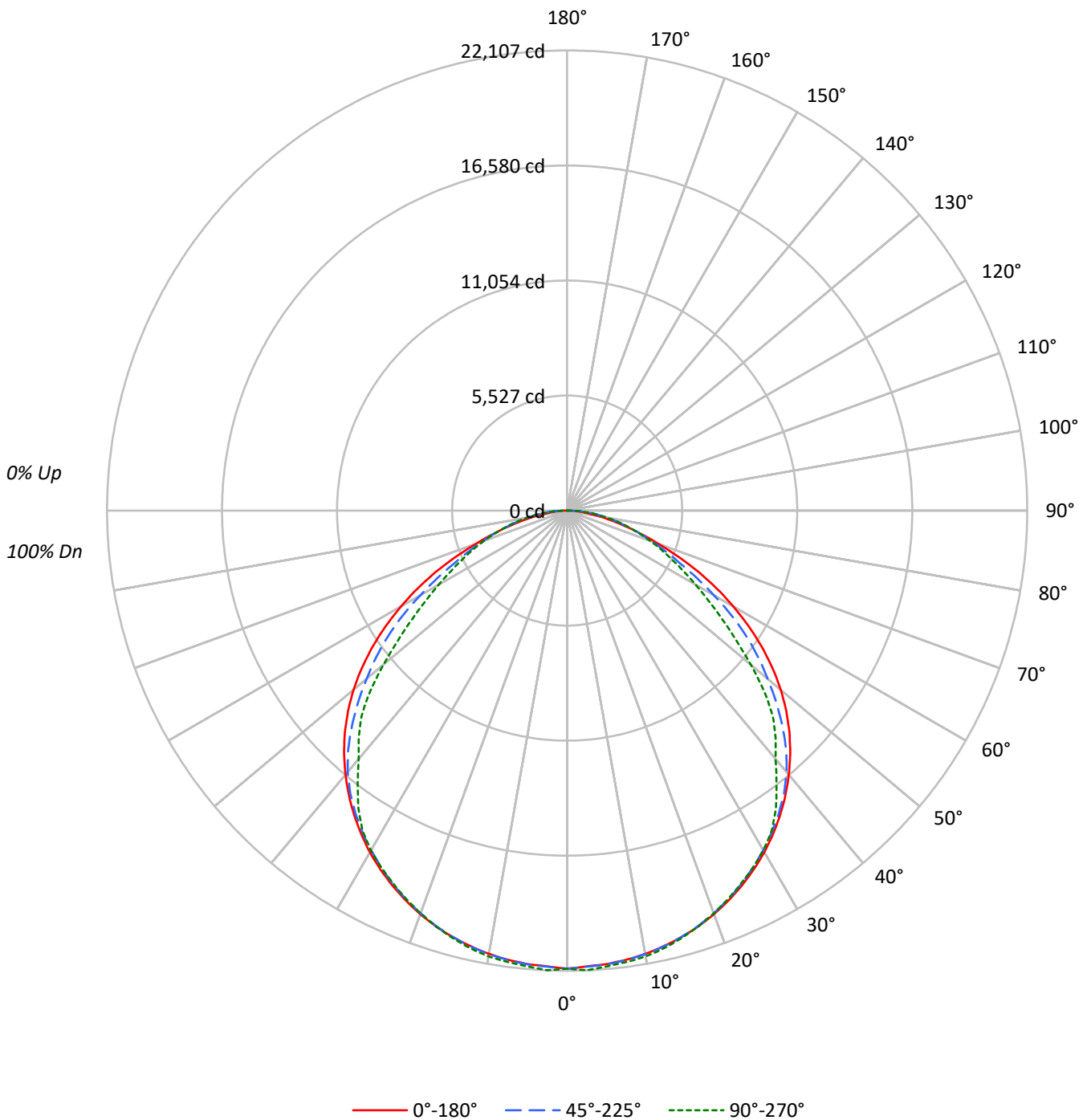
Lumens per Lamp: N/A
Luminaire Lumens: 59124.0 lumens
Efficiency: N/A
Efficacy: 160.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	29609	29609	29609
5°	29530	29551	29683
10°	29546	29561	29716
15°	29550	29546	29616
20°	29542	29474	29482
25°	29497	29387	29352
30°	29449	29273	29289
35°	29312	29130	28717
40°	29103	28806	27353
45°	28734	27814	26597
50°	28042	26333	24088
55°	26765	24628	21300
60°	24839	21974	19209
65°	22078	19025	17663
70°	18322	17003	16649
75°	14819	15560	15753
80°	11770	14882	14820
85°	9216	15987	15253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2087.0	3.5
10°-20°	6002.9	10.2
20°-30°	9153.4	15.5
30°-40°	11074.3	18.7
40°-50°	11217.3	19.0
50°-60°	9271.4	15.7
60°-70°	6123.6	10.4
70°-80°	3193.1	5.4
80°-90°	1001.0	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°	17243.3	29.2
0°-40°	28317.7	47.9
0°-60°	48806.3	82.5
0°-90°	59124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	59124.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22006	22006	22006	22006	22006	
5°	21864	21996	21880	21975	21977	###
15°	21214	21322	21211	21277	21261	5990
25°	19869	19948	19795	19845	19771	9162
35°	17845	17869	17734	17711	17484	11162
45°	15101	15061	14617	14163	13978	11628
55°	11410	11241	10499	9479	9080	10170
65°	6935	6734	5976	5587	5548	6849
75°	2850	2901	2993	3033	3030	3105
85°	597	769	1036	1028	988	725
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22006.3	22006.3	22006.3	22006.3	22006.3
2.5°	21913.8	22043.3	21935.0	22030.1	22106.7
5°	21863.6	21995.7	21879.5	21974.6	21977.2
7.5°	21765.9	21898.0	21779.1	21874.2	21871.6
10°	21625.9	21750.0	21636.4	21750.0	21750.0
12.5°	21435.7	21557.2	21446.2	21551.9	21536.0
15°	21213.7	21322.1	21211.1	21277.1	21261.3
17.5°	20952.2	21050.0	20925.8	20981.3	20949.6
20°	20632.5	20722.4	20585.0	20656.3	20590.3
22.5°	20273.3	20357.8	20217.8	20270.6	20196.6
25°	19869.1	19948.3	19795.1	19845.3	19771.3
27.5°	19433.2	19504.5	19332.8	19393.5	19335.4
30°	18955.0	18989.3	18841.4	18920.7	18852.0
32.5°	18421.3	18442.5	18313.0	18384.4	18268.1
35°	17845.4	17869.2	17734.5	17710.7	17483.5
37.5°	17229.9	17240.5	17113.7	16899.7	16524.5
40°	16569.4	16564.2	16400.4	15906.3	15573.5
42.5°	15864.1	15861.4	15573.5	15010.8	14820.6
45°	15100.6	15061.0	14617.1	14162.7	13977.8
47.5°	14281.6	14239.4	13618.5	13256.6	12836.6
50°	13396.6	13322.7	12580.3	12086.3	11507.7
52.5°	12442.9	12329.3	11573.8	10775.9	10229.1
55°	11410.0	11240.9	10498.6	9478.8	9079.9
57.5°	10334.8	10083.8	9362.6	8369.3	8044.3
60°	9230.5	8950.5	8165.8	7349.5	7138.2
62.5°	8094.5	7817.1	7016.7	6401.1	6284.9
65°	6934.8	6734.0	5975.8	5587.4	5547.8
67.5°	5745.9	5674.6	5096.1	4897.9	4882.1
70°	4657.5	4644.3	4322.0	4221.6	4232.2
72.5°	3722.3	3706.5	3658.9	3608.7	3611.4
75°	2850.5	2900.7	2993.2	3032.8	3030.2
77.5°	2126.7	2229.7	2425.2	2504.4	2491.2
80°	1519.0	1672.3	1920.6	1994.6	1912.7
82.5°	1011.8	1173.0	1466.2	1476.8	1410.7
85°	597.0	768.8	1035.6	1027.7	988.0
87.5°	295.9	462.3	620.8	594.4	568.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)