

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-N-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-N-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

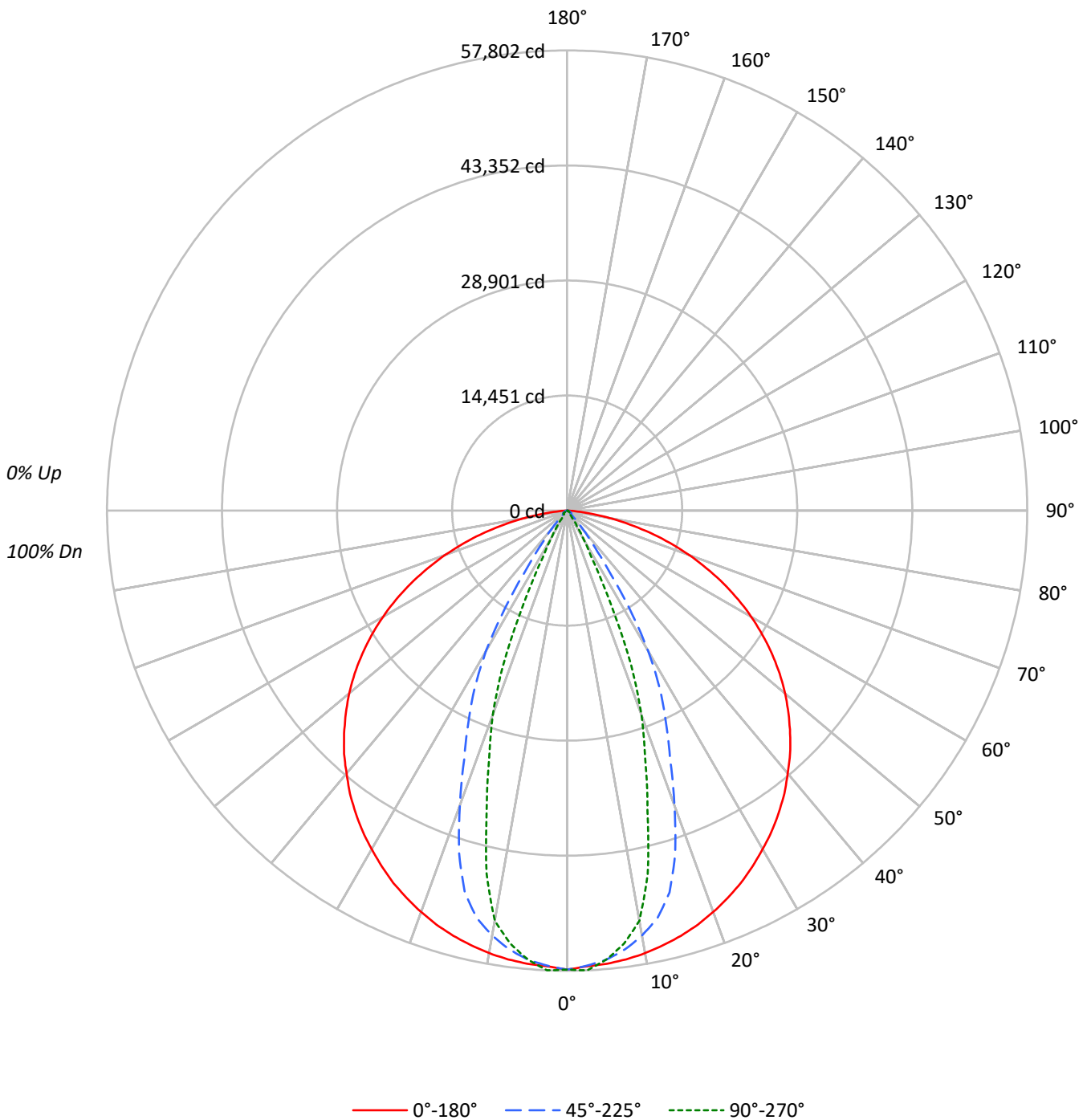
Lumens per Lamp: N/A
Luminaire Lumens: 61288.0 lumens
Efficiency: N/A
Efficacy: 166.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	77584	77584	77584
5°	77169	76488	76454
10°	77121	74037	71439
15°	77012	69168	54369
20°	76833	56386	39135
25°	76637	43598	19279
30°	76299	31686	6252
35°	76118	14058	1609
40°	75720	5709	1084
45°	75381	1602	1153
50°	74794	1137	1280
55°	73716	1351	547
60°	71897	1506	332
65°	68940	961	393
70°	64046	852	485
75°	56028	642	670
80°	41892	786	956
85°	20750	1016	1271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5351.2	8.7
10°-20°	13380.6	21.8
20°-30°	14493.2	23.6
30°-40°	10732.9	17.5
40°-50°	7730.5	12.6
50°-60°	4786.6	7.8
60°-70°	2943.7	4.8
70°-80°	1551.8	2.5
80°-90°	317.6	0.5
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°	33225.0	54.2
0°-40°	43957.8	71.7
0°-60°	56474.9	92.1
0°-90°	61288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	61288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	57662	57662	57662	57662	57662	
5°	57136	57347	56631	56672	56606	###
15°	55287	54003	49655	42227	39032	15607
25°	51622	47285	29368	18475	12986	23786
35°	46342	32670	8558	2013	979	28992
45°	39616	18406	842	609	606	30552
55°	31425	3791	576	521	233	28053
65°	21654	400	302	192	123	21365
75°	10778	93	123	162	129	11383
85°	1344	36	66	99	82	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	57662.5	57662.5	57662.5	57662.5	57662.5
2.5°	57292.2	57657.0	57226.4	57547.3	57802.4
5°	57135.9	57347.1	56631.1	56672.3	56606.4
7.5°	56861.6	56812.2	55608.0	55081.3	54850.9
10°	56447.3	56120.9	54189.8	53089.8	52288.8
12.5°	55912.4	55182.8	52420.5	48923.0	46750.5
15°	55287.0	54003.2	49655.4	42227.2	39031.5
17.5°	54540.9	52722.2	45134.8	35391.4	32538.6
20°	53660.4	51293.1	39379.8	30110.9	27332.2
22.5°	52678.3	49554.0	33789.4	25025.2	21061.5
25°	51622.2	47285.4	29367.5	18474.7	12985.8
27.5°	50401.6	44369.5	25220.0	10881.8	6627.3
30°	49109.6	40858.4	20394.9	5853.8	4024.1
32.5°	47806.6	36878.1	14431.4	3656.5	2282.3
35°	46341.8	32670.2	8558.4	2013.4	979.3
37.5°	44813.9	28813.4	5058.3	916.2	628.2
40°	43110.4	25288.6	3250.6	609.0	617.2
42.5°	41464.6	22002.3	1829.6	600.7	611.7
45°	39615.7	18406.1	842.1	609.0	606.2
47.5°	37703.8	14678.3	545.9	614.5	614.5
50°	35731.5	10495.1	543.1	628.2	611.7
52.5°	33649.5	6547.8	565.1	625.4	502.0
55°	31424.9	3791.0	576.0	521.2	233.2
57.5°	29120.7	2235.6	581.5	299.0	131.7
60°	26717.7	1237.1	559.6	222.2	123.4
62.5°	24240.7	589.8	441.6	208.5	120.7
65°	21654.0	400.5	301.7	192.0	123.4
67.5°	18968.5	310.0	238.6	181.0	126.2
70°	16280.3	230.4	216.7	181.0	123.4
72.5°	13548.1	156.4	181.0	183.8	123.4
75°	10777.6	93.3	123.4	161.8	128.9
77.5°	8031.8	57.6	96.0	167.3	156.4
80°	5406.6	49.4	101.5	156.4	123.4
82.5°	3173.8	43.9	98.8	120.7	98.8
85°	1344.1	35.7	65.8	98.8	82.3
87.5°	252.4	30.2	52.1	79.5	71.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)