

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-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-WG-UNV-L835-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

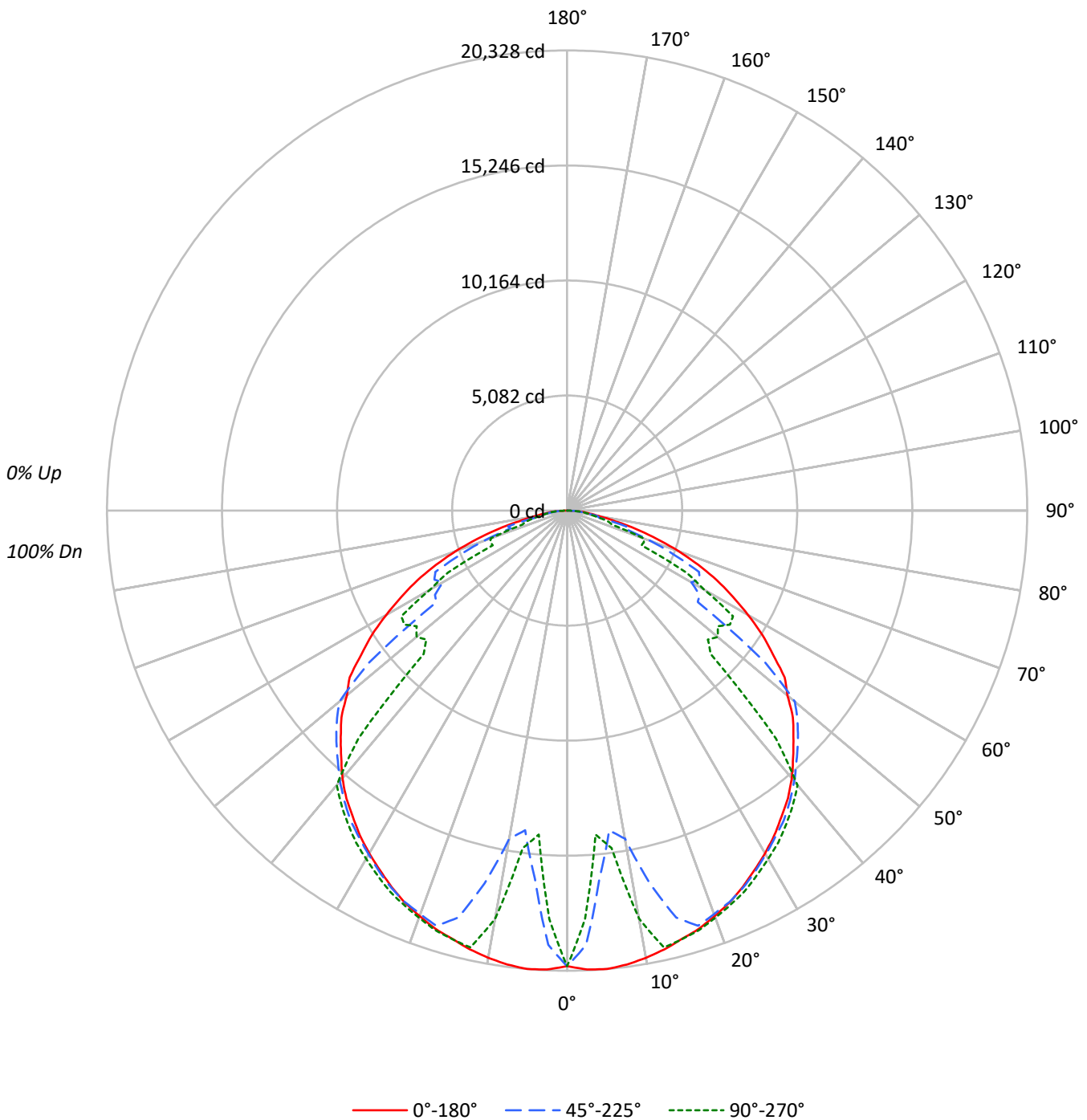
Lumens per Lamp: N/A
Luminaire Lumens: 53317.0 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-60HE-W-WG-UNV-L835-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-WG-UNV-L835-ED4-U

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	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27079	27079	27079
5°	27455	22056	19398
10°	27408	20115	25017
15°	27286	25925	27310
20°	27287	27162	27404
25°	27238	27299	27549
30°	27159	27248	27600
35°	27116	27416	27736
40°	27119	27415	27808
45°	26907	27433	17048
50°	26602	27488	18169
55°	26041	16529	20593
60°	24841	17038	18858
65°	23276	20456	11538
70°	20553	15497	14144
75°	16376	14087	9808
80°	11281	10181	8428
85°	10811	9399	8917



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-WG-UNV-L835-ED4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1609.3	3.0
10°-20°	5041.8	9.5
20°-30°	8294.8	15.6
30°-40°	10429.7	19.6
40°-50°	10228.9	19.2
50°-60°	8475.1	15.9
60°-70°	5977.7	11.2
70°-80°	2608.0	4.9
80°-90°	651.6	1.2
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°	14946.0	28.0
0°-40°	25375.6	47.6
0°-60°	44079.7	82.7
0°-90°	53317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	53317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20125	20125	20125	20125	20125	
5°	20328	18920	16330	14807	14362	###
15°	19589	13604	18612	19666	19606	5539
25°	18347	16788	18388	18511	18556	8457
35°	16508	16499	16691	16802	16886	10343
45°	14140	14184	14417	12769	8959	10915
55°	11101	11464	7046	8011	8779	9932
65°	7311	7742	6425	4943	3624	7188
75°	3150	3088	2710	1771	1887	3378
85°	700	623	609	582	578	726
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-W-WG-UNV-L835-ED4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20125.4	20125.4	20125.4	20125.4	20125.4
2.5°	20291.5	19870.3	19201.3	18359.1	18060.7
5°	20327.6	18919.8	16330.4	14807.1	14361.9
7.5°	20224.1	17194.3	14236.8	14556.8	15028.5
10°	20060.5	15678.2	14722.9	17321.9	18310.9
12.5°	19851.1	14330.6	16867.1	19567.1	19764.5
15°	19588.8	13603.9	18611.8	19665.8	19605.6
17.5°	19367.4	14029.8	19237.4	19468.5	19425.1
20°	19057.0	14879.3	18970.3	19155.6	19138.8
22.5°	18744.1	15885.2	18717.6	18850.0	18850.0
25°	18347.0	16787.6	18388.0	18510.7	18556.4
27.5°	17911.5	17307.4	17976.4	18077.5	18159.3
30°	17480.7	17382.0	17538.5	17668.4	17764.7
32.5°	17025.9	16987.4	17110.1	17247.3	17370.0
35°	16508.5	16498.9	16691.4	16802.1	16886.3
37.5°	16022.4	15988.7	16166.8	16320.8	16385.8
40°	15440.0	15440.0	15608.5	15764.9	15832.3
42.5°	14775.8	14869.7	14999.6	15160.9	13654.4
45°	14140.5	14183.8	14417.3	12768.8	8959.3
47.5°	13529.3	13584.6	13806.0	8208.5	8432.3
50°	12708.6	12958.9	13132.2	8184.5	8680.2
52.5°	12109.4	12217.7	11024.1	8102.6	8381.8
55°	11101.1	11464.5	7046.2	8011.2	8778.9
57.5°	10239.6	10504.3	6928.3	8208.5	8685.0
60°	9231.3	9635.6	6331.5	7919.7	7007.7
62.5°	8263.9	8648.9	6610.6	6232.8	5934.4
65°	7310.9	7741.7	6425.3	4942.9	3624.2
67.5°	6266.5	5864.6	5125.8	3482.2	3665.1
70°	5224.5	4095.8	3939.4	3893.7	3595.3
72.5°	4153.6	2988.9	2615.8	2921.5	2091.2
75°	3150.1	3087.5	2709.7	1771.2	1886.7
77.5°	2185.1	2228.4	1451.1	1727.9	1434.3
80°	1455.9	1261.0	1313.9	1102.2	1087.7
82.5°	1008.3	1030.0	863.9	837.5	849.5
85°	700.3	623.3	608.8	582.4	577.6
87.5°	233.4	271.9	252.7	228.6	243.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)