

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-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 (P23769)
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-CLI-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

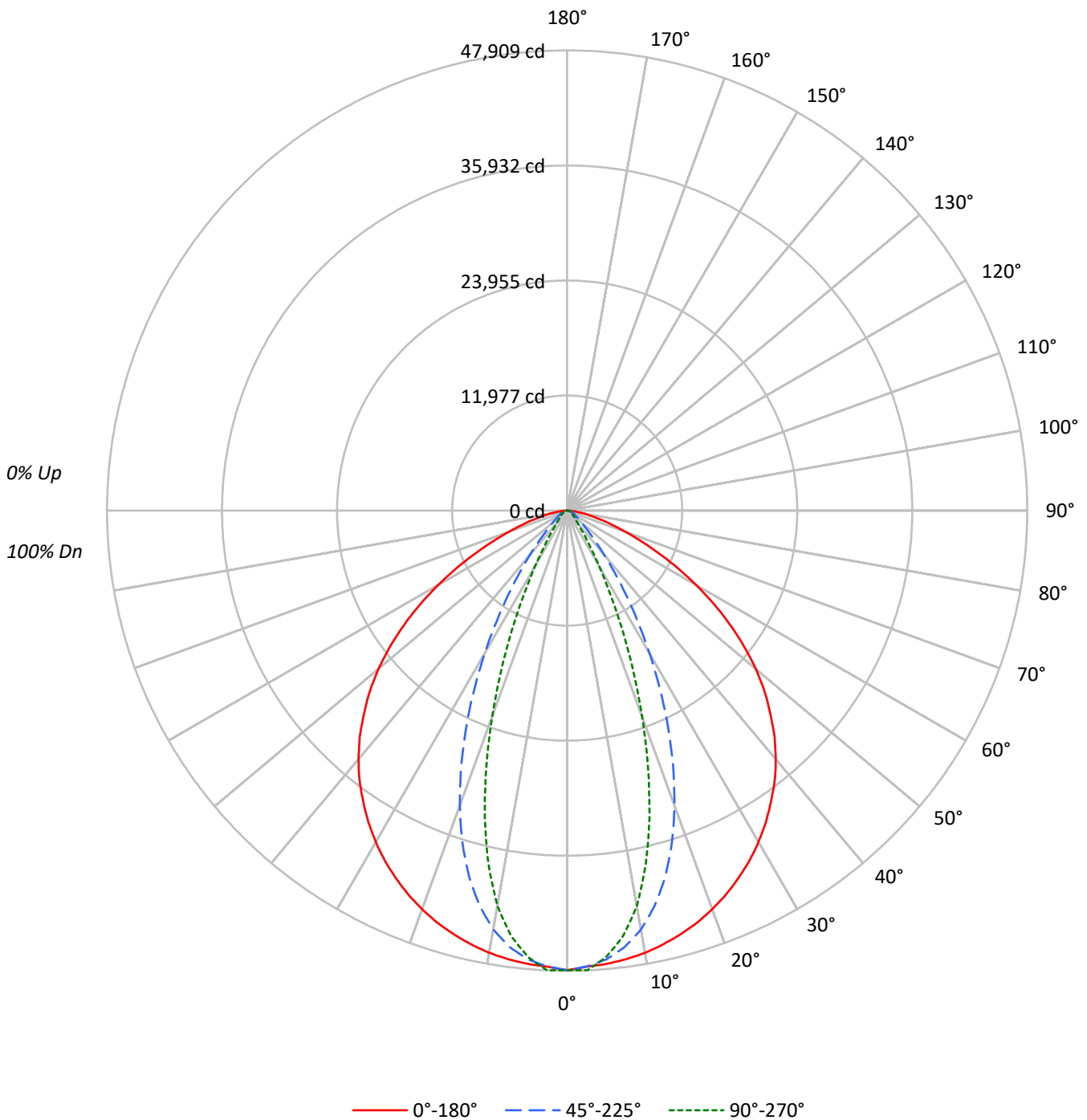
Lumens per Lamp: N/A
Luminaire Lumens: 52378.0 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-N-CLI-UNV-L750-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-N-CLI-UNV-L750-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	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	75	81	77	74	72				72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65				65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60				60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55				55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50				50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	64373	64373	64373
5°	63986	63349	63016
10°	63879	60481	57072
15°	63622	54976	46092
20°	63240	46780	32668
25°	62674	36887	19738
30°	61913	26623	10144
35°	60795	17405	5066
40°	59353	10454	2957
45°	56887	6243	2210
50°	53655	4083	1857
55°	48561	3097	1620
60°	41731	2638	1478
65°	33567	2407	1396
70°	25289	2578	1388
75°	18602	2450	1428
80°	13609	2441	1562
85°	10192	2956	2022



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-N-CLI-UNV-L750-ED4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4406.1	8.4
10°-20°	10961.5	20.9
20°-30°	12141.5	23.2
30°-40°	9727.5	18.6
40°-50°	6944.2	13.3
50°-60°	4460.3	8.5
60°-70°	2417.2	4.6
70°-80°	1033.2	2.0
80°-90°	286.5	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°	27509.1	52.5
0°-40°	37236.6	71.1
0°-60°	48641.1	92.9
0°-90°	52378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	52378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	47844	47844	47844	47844	47844	
5°	47375	47551	46904	46755	46657	###
15°	45674	44245	39467	34878	33089	12887
25°	42216	37224	24847	16188	13295	19448
35°	37013	26772	10596	4274	3084	23142
45°	29896	15455	3281	1396	1162	23044
55°	20701	6910	1320	811	690	18449
65°	10543	2837	756	522	438	10558
75°	3578	1038	471	328	275	3976
85°	660	275	192	159	131	806
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-60HE-N-CLI-UNV-L750-ED4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	47843.5	47843.5	47843.5	47843.5	47843.5
2.5°	47528.5	47825.9	47505.8	47704.9	47909.0
5°	47374.8	47551.2	46903.6	46754.9	46656.6
7.5°	47107.7	47057.3	45840.2	45051.4	44670.9
10°	46754.9	46346.7	44267.7	42534.0	41773.0
12.5°	46250.9	45409.3	42138.4	39094.3	37804.1
15°	45673.9	44245.0	39467.2	34878.4	33089.3
17.5°	44983.4	42884.3	36274.5	30357.7	27996.5
20°	44166.9	41241.3	32671.0	25554.7	22815.5
22.5°	43254.7	39346.3	28813.0	20766.8	17828.6
25°	42216.5	37224.5	24846.6	16188.1	13295.2
27.5°	41095.1	34868.4	20902.9	12095.7	9457.3
30°	39850.3	32318.2	17135.6	8721.5	6529.2
32.5°	38492.0	29606.7	13635.4	6133.5	4465.3
35°	37012.8	26771.8	10596.3	4273.8	3084.4
37.5°	35498.3	23878.9	8003.3	3021.4	2212.5
40°	33792.4	20996.1	5952.1	2212.5	1683.3
42.5°	31960.4	18168.7	4404.8	1703.5	1363.3
45°	29896.5	15454.8	3281.0	1396.0	1161.7
47.5°	27895.7	12924.8	2492.2	1189.4	1010.5
50°	25632.8	10641.7	1950.4	1038.2	887.0
52.5°	23231.3	8633.3	1582.5	914.7	781.2
55°	20701.3	6909.7	1320.4	811.4	690.5
57.5°	18138.5	5473.3	1128.9	723.2	614.9
60°	15507.7	4377.1	980.3	647.6	549.3
62.5°	12939.9	3500.2	856.8	582.1	491.4
65°	10543.4	2837.4	756.0	521.6	438.5
67.5°	8328.4	2242.7	705.6	468.7	395.6
70°	6428.4	1746.3	655.2	418.3	352.8
72.5°	4871.0	1340.6	579.6	373.0	312.5
75°	3578.3	1038.2	471.2	327.6	274.7
77.5°	2560.3	798.8	383.0	284.8	236.9
80°	1756.4	594.7	315.0	244.4	201.6
82.5°	1141.5	420.8	254.5	201.6	166.3
85°	660.2	274.7	191.5	158.8	131.0
87.5°	284.8	151.2	131.0	118.4	100.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)