

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-L735-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-L735-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

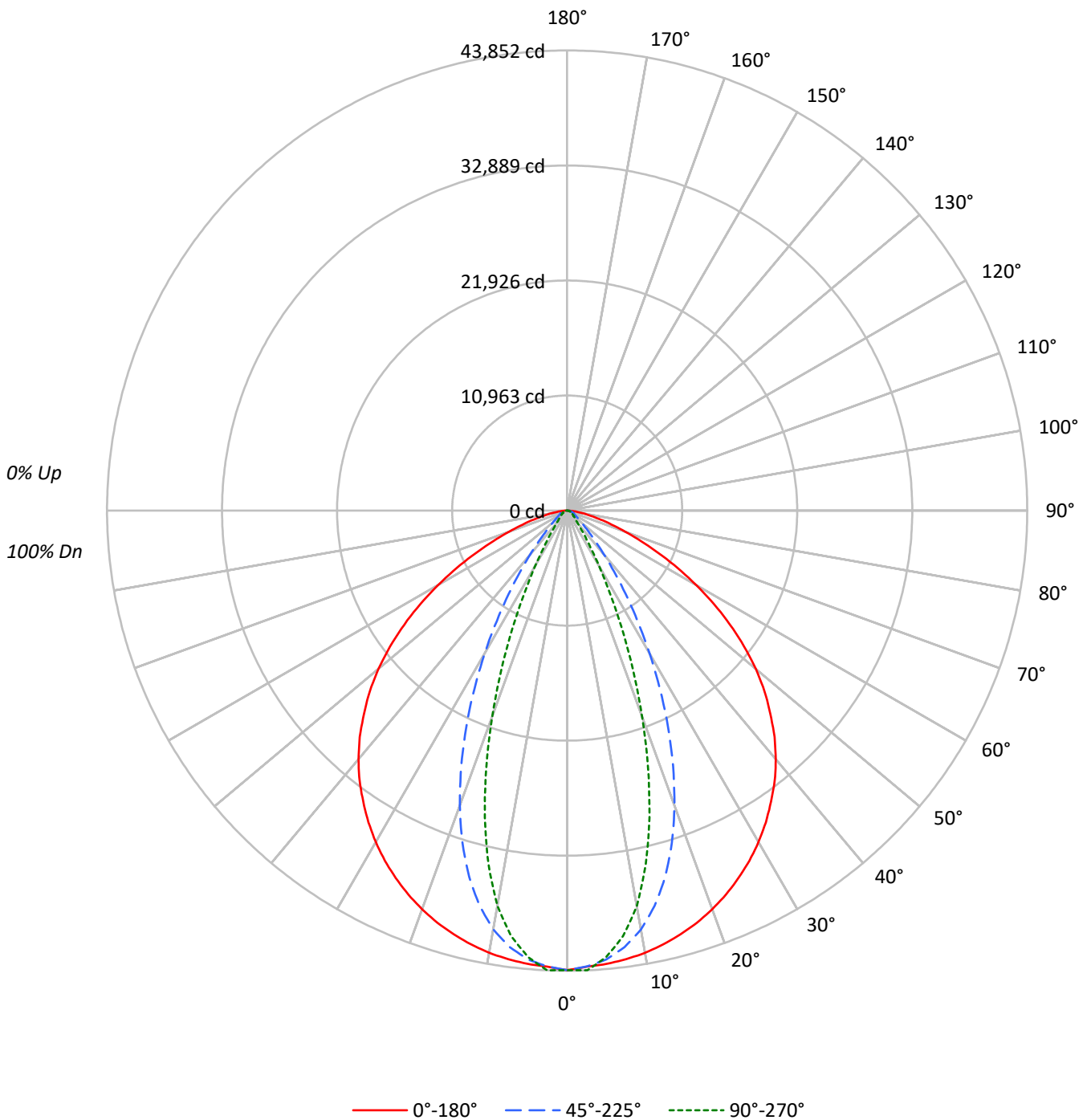
Lumens per Lamp: N/A
Luminaire Lumens: 47943.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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	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°	58922	58922	58922
5°	58568	57985	57680
10°	58470	55359	52240
15°	58234	50321	42189
20°	57885	42819	29902
25°	57367	33763	18066
30°	56670	24368	9285
35°	55647	15931	4637
40°	54328	9569	2706
45°	52071	5714	2023
50°	49112	3737	1699
55°	44449	2835	1483
60°	38197	2415	1353
65°	30725	2203	1278
70°	23148	2359	1270
75°	17027	2242	1307
80°	12457	2234	1430
85°	9329	2706	1851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4033.0	8.4
10°-20°	10033.4	20.9
20°-30°	11113.4	23.2
30°-40°	8903.8	18.6
40°-50°	6356.2	13.3
50°-60°	4082.7	8.5
60°-70°	2212.5	4.6
70°-80°	945.7	2.0
80°-90°	262.3	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°	25179.8	52.5
0°-40°	34083.7	71.1
0°-60°	44522.5	92.9
0°-90°	47943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	43792	43792	43792	43792	43792	
5°	43363	43525	42932	42796	42706	###
15°	41806	40499	36125	31925	30288	11796
25°	38642	34073	22743	14817	12169	17802
35°	33879	24505	9699	3912	2823	21183
45°	27365	14146	3003	1278	1063	21093
55°	18948	6325	1209	743	632	16887
65°	9651	2597	692	478	401	9664
75°	3275	950	431	300	251	3639
85°	604	251	175	145	120	738
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	43792.5	43792.5	43792.5	43792.5	43792.5
2.5°	43504.1	43776.3	43483.4	43665.6	43852.4
5°	43363.4	43524.9	42932.1	42796.0	42706.1
7.5°	43118.9	43072.8	41958.7	41236.8	40888.5
10°	42796.0	42422.4	40519.4	38932.5	38235.9
12.5°	42334.7	41564.3	38570.4	35784.1	34603.1
15°	41806.5	40498.7	36125.4	31925.2	30287.5
17.5°	41174.5	39253.1	33203.0	27787.2	25626.0
20°	40427.2	37749.3	29904.6	23390.9	20883.7
22.5°	39592.2	36014.7	26373.3	19008.4	16319.0
25°	38641.9	34072.6	22742.7	14817.4	12169.4
27.5°	37615.5	31916.0	19133.0	11071.5	8656.5
30°	36476.0	29581.7	15684.7	7983.0	5976.3
32.5°	35232.8	27099.8	12480.8	5614.2	4087.2
35°	33878.8	24505.0	9699.1	3911.9	2823.2
37.5°	32492.6	21857.0	7325.7	2765.6	2025.2
40°	30931.1	19218.3	5448.1	2025.2	1540.8
42.5°	29254.2	16630.3	4031.9	1559.2	1247.9
45°	27365.1	14146.2	3003.1	1277.8	1063.3
47.5°	25533.7	11830.4	2281.2	1088.7	924.9
50°	23462.4	9740.6	1785.3	950.3	811.9
52.5°	21264.2	7902.3	1448.5	837.3	715.0
55°	18948.4	6324.6	1208.6	742.7	632.0
57.5°	16602.7	5009.9	1033.3	662.0	562.8
60°	14194.6	4006.5	897.3	592.8	502.8
62.5°	11844.2	3203.8	784.2	532.8	449.8
65°	9650.7	2597.2	692.0	477.5	401.3
67.5°	7623.2	2052.8	645.8	429.0	362.1
70°	5884.1	1598.5	599.7	382.9	322.9
72.5°	4458.6	1227.1	530.5	341.4	286.0
75°	3275.3	950.3	431.3	299.9	251.4
77.5°	2343.5	731.2	350.6	260.6	216.8
80°	1607.7	544.3	288.3	223.7	184.5
82.5°	1044.9	385.2	233.0	184.5	152.2
85°	604.3	251.4	175.3	145.3	119.9
87.5°	260.6	138.4	119.9	108.4	92.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)