

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-AI-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 (P23765)
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-AI-UNV-L735-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

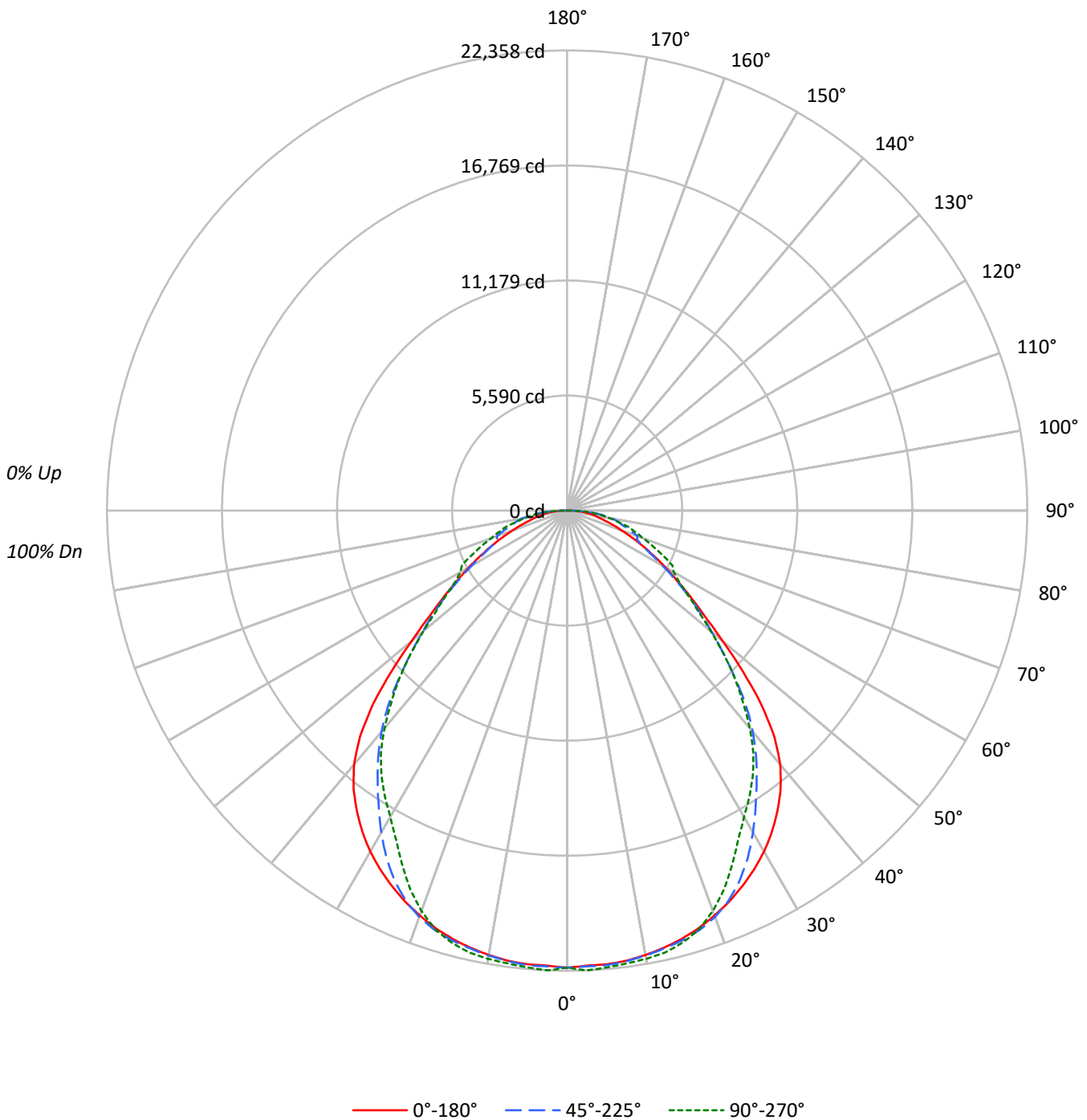
Lumens per Lamp: N/A
Luminaire Lumens: 51407.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50					48				
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36					34				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29883	29883	29883
5°	29881	29946	30092
10°	29955	29993	30213
15°	30001	30113	30261
20°	29971	30083	29636
25°	29895	29447	28167
30°	29719	28058	26691
35°	29271	26372	25822
40°	28293	24657	24251
45°	25430	22018	21937
50°	20625	19178	19046
55°	17126	16808	16802
60°	14828	14395	16093
65°	12851	12771	16222
70°	11081	14326	15464
75°	9937	14682	16120
80°	10328	17284	16174
85°	11725	19918	18481



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2114.6	4.1
10°-20°	6107.2	11.9
20°-30°	9070.5	17.6
30°-40°	10297.6	20.0
40°-50°	9205.6	17.9
50°-60°	6364.8	12.4
60°-70°	4199.8	8.2
70°-80°	2833.4	5.5
80°-90°	1213.5	2.4
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°	17292.3	33.6
0°-40°	27589.9	53.7
0°-60°	43160.2	84.0
0°-90°	51407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	51407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22209	22209	22209	22209	22209	
5°	22124	22260	22172	22262	22280	###
15°	21538	21641	21618	21739	21724	6079
25°	20137	20328	19835	19244	18973	9279
35°	17821	17446	16055	15822	15721	11113
45°	13364	12233	11571	11659	11528	10163
55°	7301	6665	7165	7064	7162	6631
65°	4036	3584	4011	4690	5095	4028
75°	1911	2404	2824	3018	3101	2087
85°	760	1056	1290	1298	1197	792
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22209.4	22209.4	22209.4	22209.4	22209.4
2.5°	22134.0	22272.3	22169.2	22264.7	22357.8
5°	22123.9	22259.7	22171.7	22262.2	22279.8
7.5°	22061.0	22186.8	22083.7	22171.7	22191.8
10°	21925.2	22073.6	21952.9	22088.7	22113.8
12.5°	21749.2	21900.1	21794.4	21980.6	21990.6
15°	21537.9	21641.0	21618.4	21739.1	21724.0
17.5°	21271.3	21389.5	21371.9	21402.1	21331.7
20°	20931.8	21065.1	21009.8	20871.5	20697.9
22.5°	20567.2	20728.1	20509.3	20159.7	19915.8
25°	20137.1	20328.2	19835.3	19244.3	18972.7
27.5°	19661.8	19832.8	19012.9	18288.6	18007.0
30°	19128.6	19201.5	18059.8	17370.7	17179.5
32.5°	18512.5	18406.8	17041.2	16586.0	16475.4
35°	17820.8	17446.1	16055.4	15821.5	15720.9
37.5°	17041.2	16354.6	15082.1	14973.9	14868.3
40°	16108.2	15094.7	14038.4	13968.0	13807.0
42.5°	14903.5	13724.0	12879.0	12796.0	12652.7
45°	13364.4	12232.7	11571.2	11659.3	11528.5
47.5°	11593.9	10736.3	10316.3	10557.7	10316.3
50°	9853.5	9277.6	9161.9	9380.7	9099.0
52.5°	8427.6	7909.5	8148.4	8186.1	8017.6
55°	7300.9	6664.6	7165.1	7064.5	7162.5
57.5°	6320.0	5608.3	6224.5	6108.8	6445.8
60°	5510.2	4710.5	5349.3	5324.1	5980.5
62.5°	4715.5	4076.7	4589.8	4959.5	5766.8
65°	4036.5	3583.8	4011.3	4690.4	5095.3
67.5°	3385.1	3214.1	3669.3	4046.5	4489.2
70°	2816.7	2904.8	3641.6	3571.2	3930.8
72.5°	2338.9	2638.2	3214.1	3226.7	3480.7
75°	1911.4	2404.3	2824.3	3017.9	3100.9
77.5°	1589.4	2180.5	2550.1	2618.1	2537.6
80°	1332.9	1921.4	2230.7	2200.6	2087.4
82.5°	1076.4	1456.1	1757.9	1785.6	1652.3
85°	759.5	1056.3	1290.2	1297.7	1197.1
87.5°	407.4	651.4	782.1	804.8	744.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)