

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-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 (P23760)
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-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

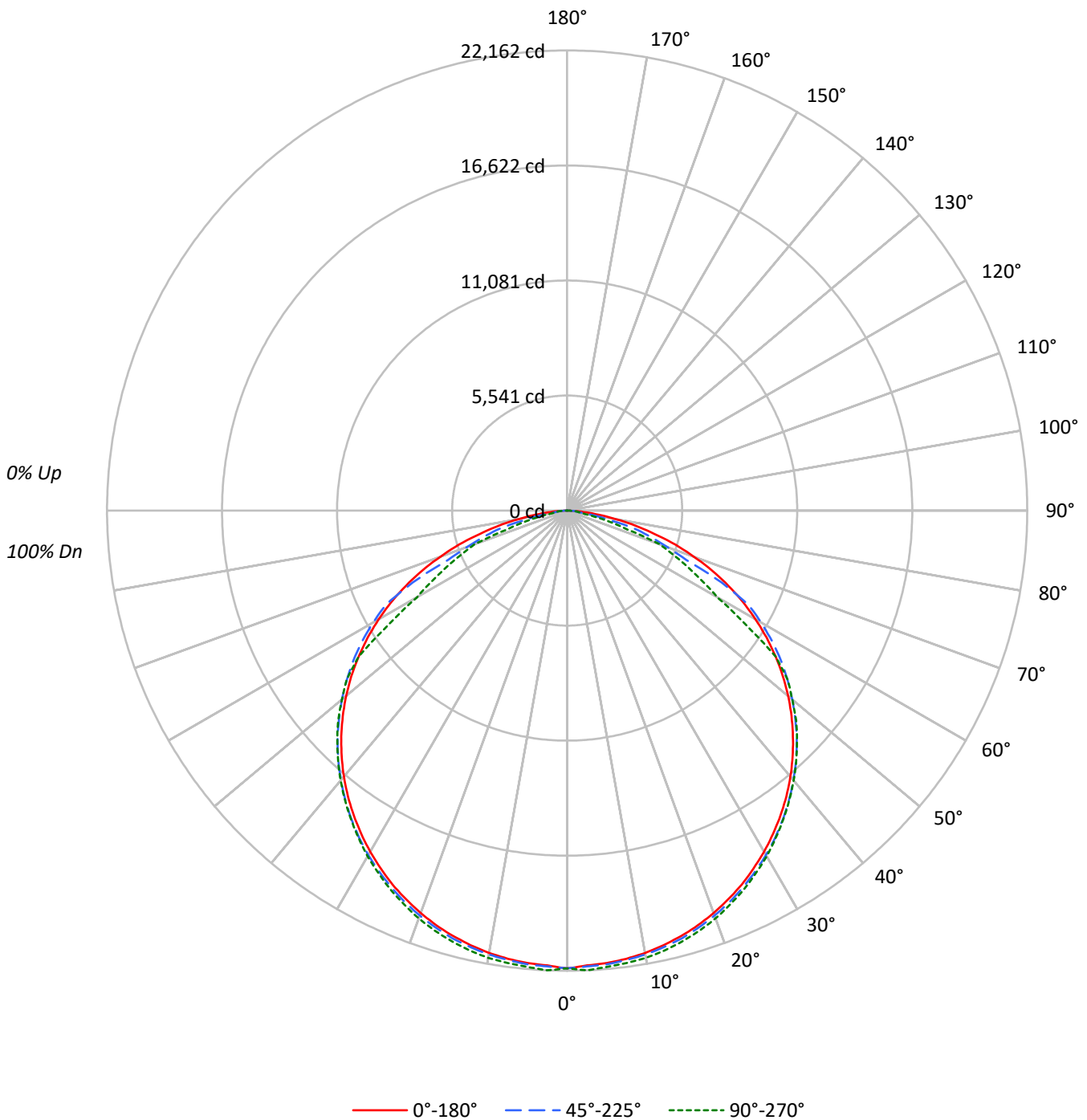
Lumens per Lamp: N/A
Luminaire Lumens: 63643.0 lumens
Efficiency: N/A
Efficacy: 172.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29662	29662	29662
5°	29539	29622	29789
10°	29556	29661	29885
15°	29548	29707	29913
20°	29533	29722	29931
25°	29522	29734	29899
30°	29471	29758	29869
35°	29434	29772	29811
40°	29381	29770	29817
45°	29270	29757	29793
50°	29095	29631	29626
55°	28755	29475	28743
60°	28222	29039	22489
65°	27280	26136	20262
70°	25557	20109	18674
75°	22629	17532	11638
80°	18636	10322	5201
85°	12281	6325	6814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2092.0	3.3
10°-20°	6035.6	9.5
20°-30°	9253.3	14.5
30°-40°	11348.2	17.8
40°-50°	12049.9	18.9
50°-60°	11006.1	17.3
60°-70°	7664.7	12.0
70°-80°	3574.8	5.6
80°-90°	618.4	1.0
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°	17380.9	27.3
0°-40°	28729.1	45.1
0°-60°	51785.1	81.4
0°-90°	63643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	63643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22045	22045	22045	22045	22045	
5°	21871	22024	21932	22037	22056	###
15°	21213	21361	21326	21456	21474	5990
25°	19886	20060	20029	20177	20140	9164
35°	17920	18126	18126	18247	18150	11214
45°	15382	15615	15639	15739	15657	11863
55°	12258	12504	12565	12586	12253	10947
65°	8569	8833	8209	6528	6364	8455
75°	4353	4628	3372	2336	2239	4653
85°	796	523	410	439	441	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22045.4	22045.4	22045.4	22045.4	22045.4
2.5°	21929.1	22069.1	21976.6	22077.1	22161.6
5°	21870.9	22024.2	21931.7	22037.4	22055.9
7.5°	21775.8	21921.1	21836.6	21952.9	21981.9
10°	21633.0	21775.8	21709.7	21847.1	21873.6
12.5°	21440.1	21585.5	21535.3	21685.9	21704.4
15°	21212.8	21360.8	21326.5	21456.0	21474.5
17.5°	20945.9	21099.2	21059.5	21196.9	21210.2
20°	20626.1	20792.6	20758.2	20919.4	20903.6
22.5°	20266.6	20443.7	20417.3	20578.5	20530.9
25°	19886.0	20060.5	20028.7	20176.7	20139.7
27.5°	19439.3	19632.3	19603.2	19745.9	19687.8
30°	18968.9	19164.5	19153.9	19283.4	19225.3
32.5°	18461.4	18670.2	18659.7	18786.5	18696.7
35°	17919.6	18125.8	18125.8	18247.3	18149.6
37.5°	17346.1	17554.9	17557.5	17673.8	17581.3
40°	16727.6	16936.4	16949.6	17060.6	16976.1
42.5°	16077.4	16304.7	16315.3	16415.7	16336.5
45°	15382.3	15614.9	15638.7	15739.1	15657.2
47.5°	14655.5	14890.7	14911.9	15020.2	14962.1
50°	13899.6	14126.9	14156.0	14245.8	14153.3
52.5°	13101.4	13334.0	13373.6	13429.1	13386.9
55°	12258.3	12504.1	12564.9	12586.0	12253.0
57.5°	11386.1	11637.2	11695.3	11209.0	10138.6
60°	10487.5	10735.9	10791.4	9118.4	8357.2
62.5°	9551.8	9795.0	9855.8	7556.4	7313.2
65°	8568.6	8832.9	8209.2	6528.2	6364.4
67.5°	7559.0	7831.2	6208.4	5595.3	5497.5
70°	6496.5	6771.4	5111.6	4770.6	4746.8
72.5°	5476.3	5679.8	4194.5	3615.6	3044.7
75°	4353.0	4627.9	3372.5	2336.4	2238.6
77.5°	3375.1	2917.9	2035.1	1712.7	1350.6
80°	2405.1	1950.5	1332.1	711.0	671.3
82.5°	1525.0	1273.9	523.3	536.5	560.3
85°	795.5	523.3	409.7	438.7	441.4
87.5°	256.4	224.7	245.8	243.2	240.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)