

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-L740-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-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

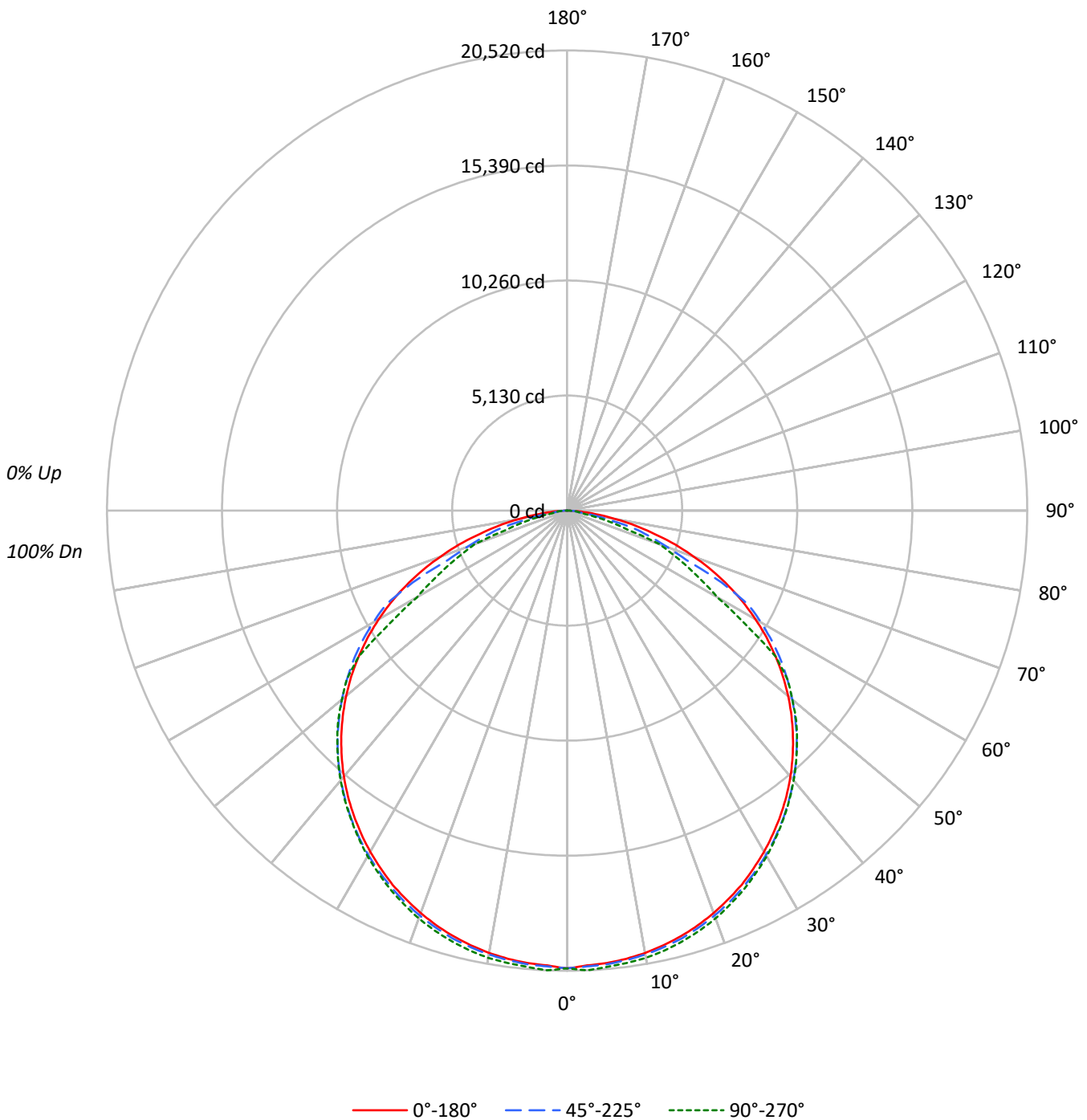
Lumens per Lamp: N/A
Luminaire Lumens: 58928.0 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27464	27464	27464
5°	27351	27427	27582
10°	27366	27463	27671
15°	27359	27506	27697
20°	27345	27520	27713
25°	27335	27531	27684
30°	27287	27554	27656
35°	27253	27567	27603
40°	27204	27565	27608
45°	27101	27553	27585
50°	26939	27436	27431
55°	26625	27291	26613
60°	26131	26888	20823
65°	25259	24199	18761
70°	23663	18619	17290
75°	20953	16233	10776
80°	17256	9557	4816
85°	11371	5856	6309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1937.0	3.3
10°-20°	5588.4	9.5
20°-30°	8567.8	14.5
30°-40°	10507.5	17.8
40°-50°	11157.2	18.9
50°-60°	10190.7	17.3
60°-70°	7096.8	12.0
70°-80°	3310.0	5.6
80°-90°	572.6	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°	16093.2	27.3
0°-40°	26600.7	45.1
0°-60°	47948.6	81.4
0°-90°	58928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	58928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20412	20412	20412	20412	20412	
5°	20251	20392	20307	20405	20422	###
15°	19641	19778	19746	19866	19884	5546
25°	18413	18574	18545	18682	18648	8485
35°	16592	16783	16783	16896	16805	10383
45°	14243	14458	14480	14573	14497	10984
55°	11350	11578	11634	11654	11345	10136
65°	7934	8179	7601	6045	5893	7828
75°	4030	4285	3123	2163	2073	4309
85°	737	484	379	406	409	951
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20412.1	20412.1	20412.1	20412.1	20412.1
2.5°	20304.4	20434.1	20348.5	20441.5	20519.8
5°	20250.6	20392.5	20306.9	20404.8	20421.9
7.5°	20162.5	20297.1	20218.8	20326.5	20353.4
10°	20030.4	20162.5	20101.3	20228.6	20253.1
12.5°	19851.7	19986.3	19939.8	20079.3	20096.4
15°	19641.3	19778.3	19746.5	19866.4	19883.5
17.5°	19394.1	19536.0	19499.3	19626.6	19638.8
20°	19098.0	19252.1	19220.3	19369.6	19354.9
22.5°	18765.2	18929.1	18904.6	19053.9	19009.9
25°	18412.8	18574.3	18544.9	18682.0	18647.7
27.5°	17999.2	18177.8	18150.9	18283.1	18229.2
30°	17563.6	17744.7	17734.9	17854.8	17801.0
32.5°	17093.7	17287.0	17277.3	17394.7	17311.5
35°	16592.0	16782.9	16782.9	16895.5	16804.9
37.5°	16061.0	16254.3	16256.8	16364.4	16278.8
40°	15488.3	15681.7	15693.9	15796.7	15718.4
42.5°	14886.3	15096.8	15106.6	15199.6	15126.2
45°	14242.7	14458.1	14480.1	14573.1	14497.2
47.5°	13569.7	13787.5	13807.1	13907.5	13853.6
50°	12869.8	13080.3	13107.2	13190.4	13104.8
52.5°	12130.8	12346.1	12382.8	12434.2	12395.1
55°	11350.1	11577.7	11634.0	11653.6	11345.2
57.5°	10542.6	10775.0	10828.9	10378.6	9387.5
60°	9710.5	9940.5	9991.9	8442.9	7738.1
62.5°	8844.2	9069.3	9125.6	6996.6	6771.4
65°	7933.8	8178.6	7601.0	6044.6	5892.9
67.5°	6999.0	7251.1	5748.5	5180.7	5090.2
70°	6015.2	6269.7	4732.9	4417.2	4395.2
72.5°	5070.6	5259.0	3883.7	3347.8	2819.2
75°	4030.5	4285.1	3122.6	2163.3	2072.8
77.5°	3125.1	2701.7	1884.3	1585.8	1250.5
80°	2227.0	1806.0	1233.4	658.3	621.6
82.5°	1412.0	1179.6	484.5	496.8	518.8
85°	736.6	484.5	379.3	406.2	408.7
87.5°	237.4	208.0	227.6	225.1	222.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)