

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-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 (P23767)
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-UNV-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

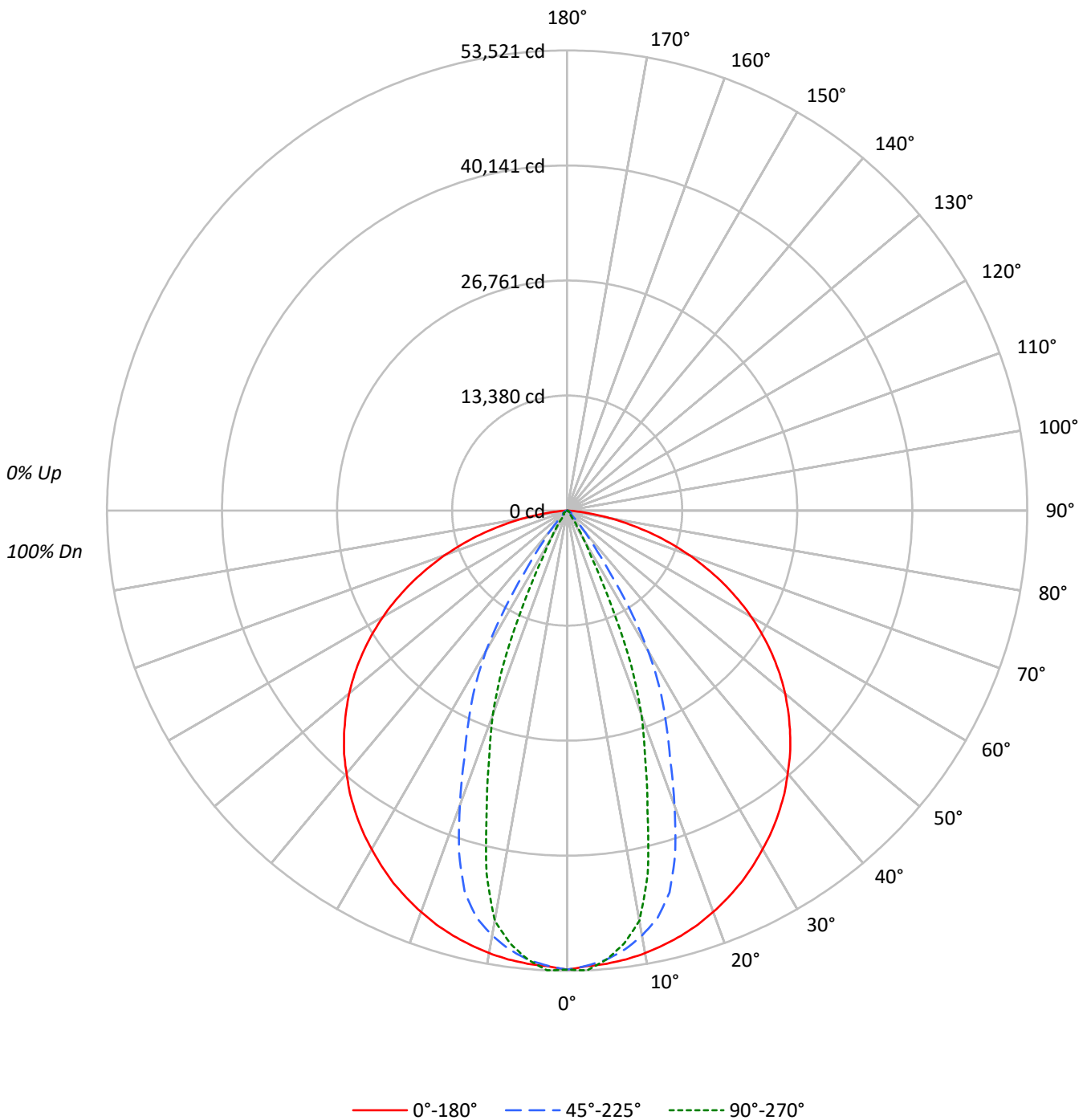
Lumens per Lamp: N/A
Luminaire Lumens: 56748.0 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	71837	71837	71837
5°	71453	70822	70791
10°	71408	68552	66147
15°	71307	64044	50341
20°	71142	52209	36236
25°	70961	40369	17850
30°	70647	29339	5789
35°	70480	13016	1489
40°	70111	5286	1004
45°	69797	1484	1068
50°	69253	1053	1186
55°	68255	1251	506
60°	66571	1394	308
65°	63833	890	364
70°	59302	790	450
75°	51878	594	621
80°	38789	728	886
85°	19212	942	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4954.8	8.7
10°-20°	12389.4	21.8
20°-30°	13419.6	23.6
30°-40°	9937.8	17.5
40°-50°	7157.8	12.6
50°-60°	4432.0	7.8
60°-70°	2725.7	4.8
70°-80°	1436.9	2.5
80°-90°	294.1	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°	30763.8	54.2
0°-40°	40701.6	71.7
0°-60°	52291.4	92.1
0°-90°	56748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	56748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	53391	53391	53391	53391	53391	
5°	52903	53099	52436	52474	52413	###
15°	51192	50003	45977	39099	36140	14451
25°	47798	43783	27192	17106	12024	22024
35°	42909	30250	7924	1864	907	26845
45°	36681	17043	780	564	561	28289
55°	29097	3510	533	483	216	25975
65°	20050	371	279	178	114	19782
75°	9979	86	114	150	119	10540
85°	1244	33	61	91	76	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	53391.1	53391.1	53391.1	53391.1	53391.1
2.5°	53048.2	53386.0	52987.3	53284.4	53520.6
5°	52903.4	53099.0	52436.1	52474.2	52413.2
7.5°	52649.4	52603.7	51488.7	51001.1	50787.7
10°	52265.9	51963.7	50175.6	49157.1	48415.4
12.5°	51770.6	51095.0	48537.4	45299.0	43287.4
15°	51191.5	50002.9	45977.1	39099.1	36140.1
17.5°	50500.7	48816.7	41791.4	32769.7	30128.2
20°	49685.4	47493.5	36462.7	27880.4	25307.5
22.5°	48776.1	45883.2	31286.4	23171.4	19501.3
25°	47798.3	43782.7	27192.1	17106.2	12023.9
27.5°	46668.0	41082.8	23351.8	10075.8	6136.4
30°	45471.7	37831.7	18884.1	5420.1	3726.0
32.5°	44265.3	34146.3	13362.4	3385.7	2113.2
35°	42909.0	30250.1	7924.5	1864.3	906.7
37.5°	41494.2	26679.0	4683.6	848.3	581.6
40°	39917.0	23415.3	3009.8	563.9	571.5
42.5°	38393.0	20372.5	1694.1	556.2	566.4
45°	36681.1	17042.7	779.7	563.9	561.3
47.5°	34910.8	13591.0	505.4	568.9	568.9
50°	33084.6	9717.6	502.9	581.6	566.4
52.5°	31156.9	6062.7	523.2	579.1	464.8
55°	29097.0	3510.1	533.4	482.6	215.9
57.5°	26963.5	2070.0	538.5	276.8	121.9
60°	24738.6	1145.5	518.1	205.7	114.3
62.5°	22445.0	546.1	408.9	193.0	111.8
65°	20049.9	370.8	279.4	177.8	114.3
67.5°	17563.4	287.0	221.0	167.6	116.8
70°	15074.3	213.4	200.7	167.6	114.3
72.5°	12544.5	144.8	167.6	170.2	114.3
75°	9979.2	86.4	114.3	149.9	119.4
77.5°	7436.8	53.3	88.9	154.9	144.8
80°	5006.1	45.7	94.0	144.8	114.3
82.5°	2938.7	40.6	91.4	111.8	91.4
85°	1244.5	33.0	61.0	91.4	76.2
87.5°	233.7	27.9	48.3	73.7	66.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)