

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-LD5-60SE-N-CLI-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-N-CLI-UNV-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

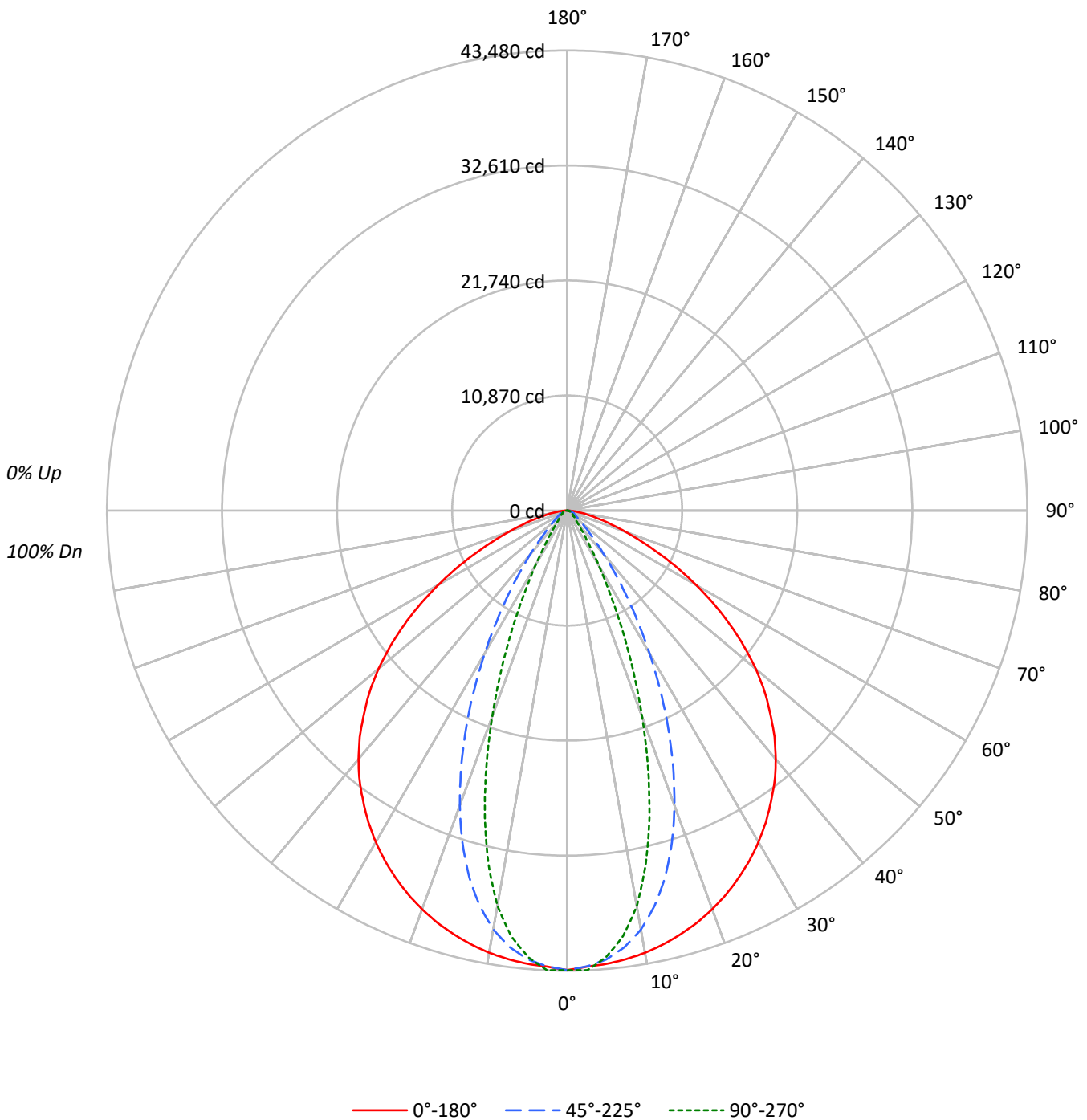
Lumens per Lamp: N/A
Luminaire Lumens: 47536.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 386
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°	58422	58422	58422
5°	58071	57493	57190
10°	57973	54890	51796
15°	57740	49894	41831
20°	57394	42455	29648
25°	56880	33477	17913
30°	56189	24161	9206
35°	55175	15796	4598
40°	53867	9488	2683
45°	51629	5666	2006
50°	48695	3705	1685
55°	44072	2811	1470
60°	37873	2394	1342
65°	30464	2184	1267
70°	22951	2339	1260
75°	16882	2223	1296
80°	12351	2215	1418
85°	9250	2683	1836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3998.8	8.4
10°-20°	9948.2	20.9
20°-30°	11019.1	23.2
30°-40°	8828.3	18.6
40°-50°	6302.2	13.3
50°-60°	4048.0	8.5
60°-70°	2193.7	4.6
70°-80°	937.6	2.0
80°-90°	260.0	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°	24966.1	52.5
0°-40°	33794.3	71.1
0°-60°	44144.6	92.9
0°-90°	47536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	43421	43421	43421	43421	43421	
5°	42995	43155	42568	42433	42344	###
15°	41452	40155	35819	31654	30030	11696
25°	38314	33783	22550	14692	12066	17651
35°	33591	24297	9617	3879	2799	21003
45°	27133	14026	2978	1267	1054	20914
55°	18788	6271	1198	736	627	16743
65°	9569	2575	686	473	398	9582
75°	3248	942	428	297	249	3608
85°	599	249	174	144	119	732
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	43420.7	43420.7	43420.7	43420.7	43420.7
2.5°	43134.8	43404.7	43114.2	43294.9	43480.2
5°	42995.3	43155.4	42567.7	42432.7	42343.5
7.5°	42752.9	42707.2	41602.5	40886.7	40541.4
10°	42432.7	42062.2	40175.5	38602.0	37911.4
12.5°	41975.3	41211.5	38243.0	35480.3	34309.4
15°	41451.6	40154.9	35818.8	31654.2	30030.4
17.5°	40825.0	38919.9	32921.2	27551.3	25408.4
20°	40084.0	37428.8	29650.8	23192.3	20706.4
22.5°	39256.1	35709.0	26149.4	18847.0	16180.4
25°	38313.9	33783.3	22549.7	14691.6	12066.1
27.5°	37296.2	31645.0	18970.5	10977.5	8583.1
30°	36166.4	29330.6	15551.5	7915.3	5925.6
32.5°	34933.7	26869.8	12374.9	5566.5	4052.5
35°	33591.2	24296.9	9616.8	3878.7	2799.3
37.5°	32216.8	21671.5	7263.5	2742.1	2008.0
40°	30668.5	19055.2	5401.9	2008.0	1527.7
42.5°	29005.8	16489.2	3997.7	1546.0	1237.3
45°	27132.8	14026.1	2977.7	1267.0	1054.3
47.5°	25316.9	11729.9	2261.8	1079.5	917.1
50°	23263.2	9657.9	1770.1	942.2	805.0
52.5°	21083.7	7835.2	1436.2	830.2	709.0
55°	18787.6	6270.9	1198.4	736.4	626.6
57.5°	16461.7	4967.3	1024.6	656.4	558.0
60°	14074.1	3972.5	889.6	587.8	498.6
62.5°	11743.7	3176.6	777.6	528.3	446.0
65°	9568.7	2575.1	686.1	473.4	397.9
67.5°	7558.5	2035.4	640.4	425.4	359.1
70°	5834.1	1584.9	594.6	379.6	320.2
72.5°	4420.7	1216.7	526.0	338.5	283.6
75°	3247.5	942.2	427.7	297.3	249.3
77.5°	2323.6	725.0	347.6	258.4	215.0
80°	1594.0	539.7	285.9	221.8	183.0
82.5°	1036.0	381.9	231.0	183.0	150.9
85°	599.2	249.3	173.8	144.1	118.9
87.5°	258.4	137.2	118.9	107.5	91.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)