

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-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 (P23767)
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-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

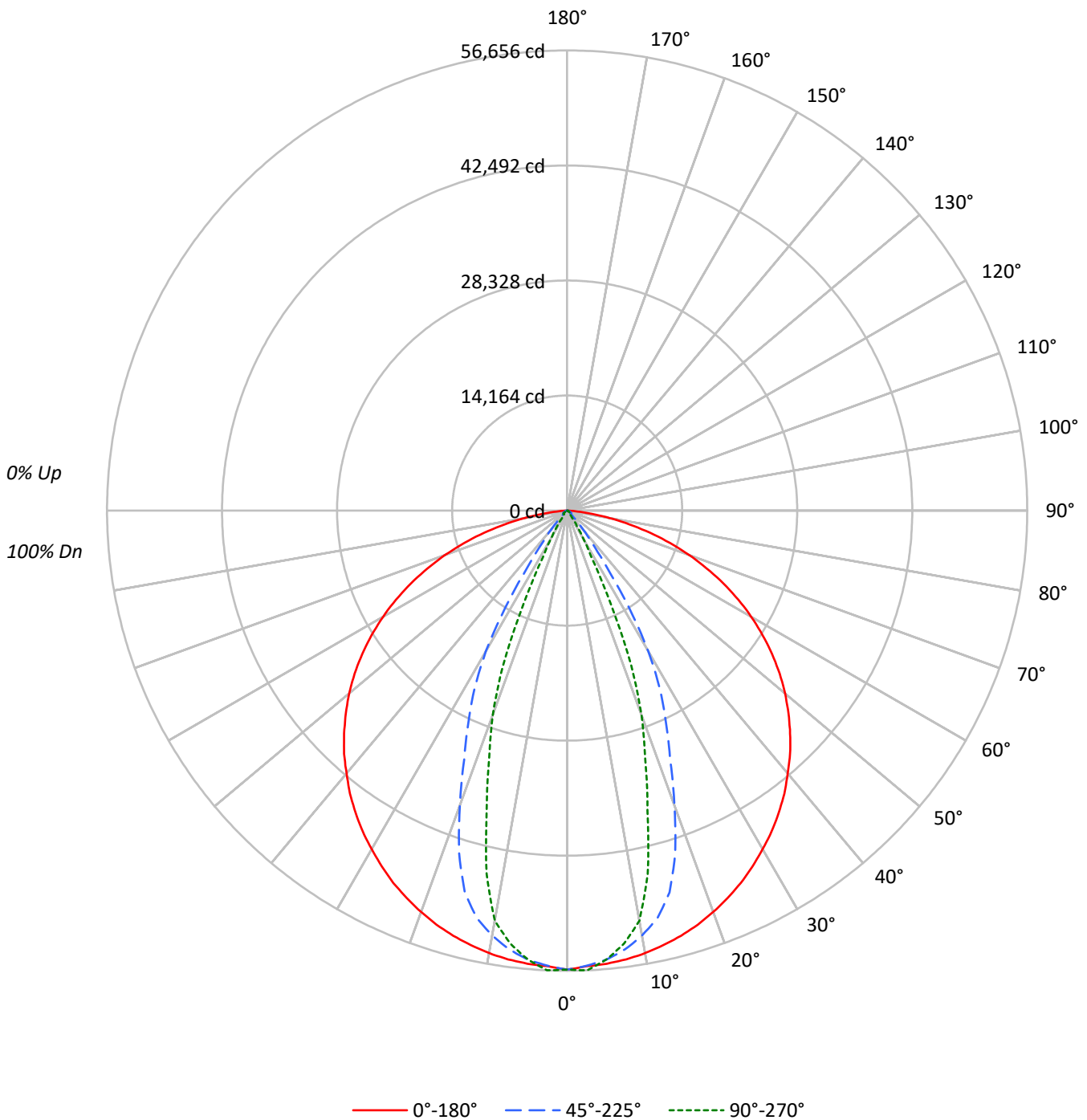
Lumens per Lamp: N/A
Luminaire Lumens: 60072.0 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	76045	76045	76045
5°	75638	74970	74937
10°	75591	72568	70022
15°	75484	67795	53290
20°	75309	55267	38359
25°	75117	42734	18896
30°	74785	31058	6128
35°	74608	13779	1577
40°	74217	5596	1063
45°	73886	1571	1131
50°	73310	1114	1255
55°	72254	1324	536
60°	70470	1476	326
65°	67572	942	385
70°	62775	836	476
75°	54917	629	657
80°	41062	771	938
85°	20338	996	1246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5245.0	8.7
10°-20°	13115.1	21.8
20°-30°	14205.7	23.6
30°-40°	10519.9	17.5
40°-50°	7577.1	12.6
50°-60°	4691.6	7.8
60°-70°	2885.3	4.8
70°-80°	1521.0	2.5
80°-90°	311.3	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°	32565.7	54.2
0°-40°	43085.7	71.7
0°-60°	55354.4	92.1
0°-90°	60072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	60072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	56518	56518	56518	56518	56518	
5°	56002	56209	55508	55548	55483	###
15°	54190	52932	48670	41389	38257	15297
25°	50598	46347	28785	18108	12728	23314
35°	45422	32022	8389	1974	960	28417
45°	38830	18041	825	597	594	29946
55°	30801	3716	565	511	228	27496
65°	21224	392	296	188	121	20941
75°	10564	91	121	159	126	11158
85°	1317	35	64	97	81	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	56518.5	56518.5	56518.5	56518.5	56518.5
2.5°	56155.5	56513.1	56091.0	56405.5	56655.6
5°	56002.2	56209.3	55507.5	55547.9	55483.3
7.5°	55733.4	55685.0	54504.7	53988.4	53762.6
10°	55327.4	55007.4	53114.6	52036.5	51251.4
12.5°	54803.1	54087.9	51380.4	47952.4	45822.9
15°	54190.1	52931.8	48670.2	41389.3	38257.0
17.5°	53458.8	51676.2	44239.3	34689.2	31893.0
20°	52595.7	50275.4	38598.5	29513.5	26789.9
22.5°	51633.2	48570.8	33119.0	24528.7	20643.6
25°	50598.0	46347.2	28784.9	18108.2	12728.1
27.5°	49401.6	43489.2	24719.6	10665.9	6495.8
30°	48135.2	40047.7	19990.2	5737.6	3944.3
32.5°	46858.1	36146.4	14145.1	3584.0	2237.0
35°	45422.3	32022.0	8388.6	1973.5	959.9
37.5°	43924.8	28241.8	4957.9	898.0	615.7
40°	42255.1	24786.8	3186.1	596.9	605.0
42.5°	40641.9	21565.8	1793.3	588.8	599.6
45°	38829.7	18041.0	825.4	596.9	594.2
47.5°	36955.7	14387.1	535.0	602.3	602.3
50°	35022.6	10286.8	532.4	615.7	599.6
52.5°	32981.9	6417.8	553.9	613.0	492.0
55°	30801.4	3715.7	564.6	510.8	228.5
57.5°	28542.9	2191.3	570.0	293.1	129.1
60°	26187.6	1212.6	548.5	217.8	121.0
62.5°	23759.7	578.1	432.9	204.3	118.3
65°	21224.3	392.5	295.8	188.2	121.0
67.5°	18592.1	303.8	233.9	177.5	123.7
70°	15957.2	225.8	212.4	177.5	121.0
72.5°	13279.3	153.3	177.5	180.1	121.0
75°	10563.8	91.4	121.0	158.6	126.4
77.5°	7872.4	56.5	94.1	164.0	153.3
80°	5299.4	48.4	99.5	153.3	121.0
82.5°	3110.8	43.0	96.8	118.3	96.8
85°	1317.4	35.0	64.5	96.8	80.7
87.5°	247.4	29.6	51.1	78.0	69.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)