

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-LD5-36SE-N-CLWG-UNV-L740-ED3-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CLWG-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

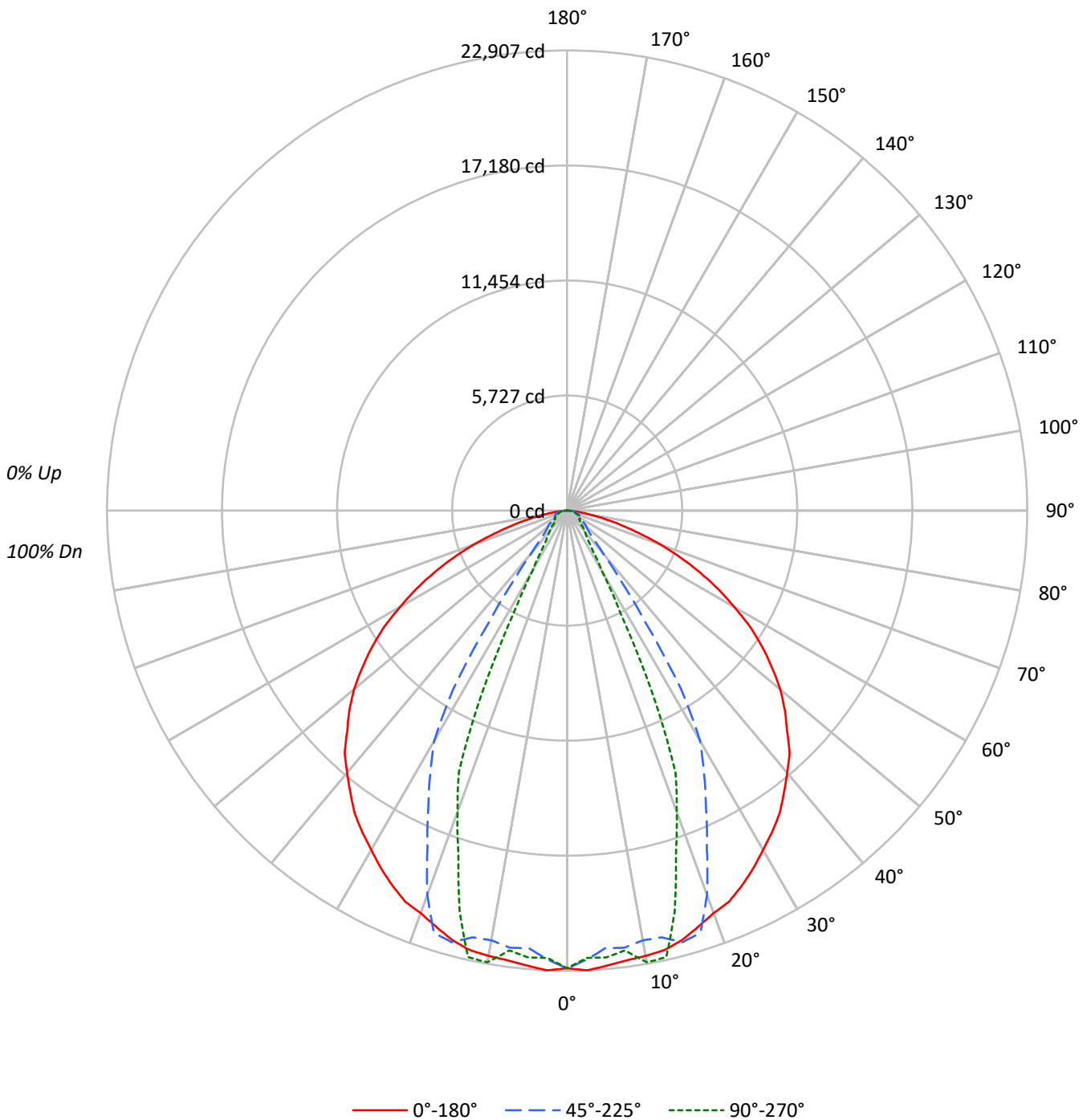
Lumens per Lamp: N/A
Luminaire Lumens: 30628.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 232
Input Voltage (V): NR
Input Current (A_{in}): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30654	30654	30654
5°	30705	29535	30157
10°	30749	29677	31200
15°	30818	30978	28792
20°	30526	29137	22853
25°	30570	24290	14928
30°	30296	20577	5363
35°	30264	11147	3016
40°	29921	4860	2362
45°	29459	3003	1852
50°	29000	2616	1748
55°	27860	2269	1711
60°	25848	2033	1839
65°	23234	2297	2009
70°	19486	2471	2072
75°	14567	2818	2243
80°	9148	3271	2558
85°	6092	4100	3745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2111.6	6.9
10°-20°	5962.8	19.5
20°-30°	7301.6	23.8
30°-40°	5734.0	18.7
40°-50°	4252.1	13.9
50°-60°	2588.6	8.5
60°-70°	1550.6	5.1
70°-80°	850.8	2.8
80°-90°	275.9	0.9
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°	15376.0	50.2
0°-40°	21110.0	68.9
0°-60°	27950.7	91.3
0°-90°	30628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22783	22783	22783	22783	22783	
5°	22734	22115	21868	22109	22328	###
15°	22124	21518	22239	21341	20670	6229
25°	20592	20656	16362	12833	10056	9479
35°	18425	16761	6787	2271	1836	11497
45°	15482	11116	1578	1196	974	11972
55°	11876	3063	967	818	729	10569
65°	7298	903	722	679	631	7210
75°	2802	570	542	471	432	3034
85°	395	310	266	244	243	481
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22782.6	22782.6	22782.6	22782.6	22782.6
2.5°	22907.0	22598.4	22361.9	22229.9	22283.6
5°	22733.5	22114.7	21867.5	22108.6	22328.2
7.5°	22583.0	21663.3	21942.8	21964.3	22079.4
10°	22506.3	21620.3	21721.7	22199.2	22836.4
12.5°	22404.9	21720.1	21755.4	22406.5	22765.8
15°	22123.9	21517.5	22239.1	21340.9	20669.9
17.5°	21714.0	21044.5	22036.4	18905.7	17993.6
20°	21319.4	20530.2	20349.0	16840.5	15960.7
22.5°	21064.5	20451.9	18177.9	15005.7	14096.7
25°	20591.6	20656.1	16361.5	12833.1	10055.5
27.5°	20071.1	20175.5	14755.4	8558.5	5760.9
30°	19499.9	19619.7	13244.6	5057.7	3451.6
32.5°	18982.5	18306.9	10577.5	3155.3	2399.9
35°	18425.1	16760.7	6786.6	2270.9	1836.4
37.5°	17723.4	15136.2	4296.1	1796.4	1541.6
40°	17035.5	13677.6	2766.8	1533.9	1345.0
42.5°	16392.2	12475.3	2012.9	1340.4	1214.5
45°	15481.7	11116.5	1578.4	1196.1	973.5
47.5°	14694.0	9522.7	1380.3	1011.8	839.9
50°	13854.1	7281.0	1249.8	899.8	835.3
52.5°	12857.7	4762.9	1154.6	861.4	780.0
55°	11876.5	3063.2	967.3	818.4	729.3
57.5°	10817.1	1942.3	853.7	793.8	761.6
60°	9605.6	1309.7	755.4	752.4	683.3
62.5°	8484.8	1076.3	729.3	721.6	646.4
65°	7297.9	902.8	721.6	678.7	631.1
67.5°	6112.5	773.9	652.6	620.3	578.9
70°	4953.3	707.8	628.0	614.2	526.7
72.5°	3761.8	583.5	557.4	520.5	437.6
75°	2802.2	569.6	542.0	471.4	431.5
77.5°	1896.3	525.1	492.9	422.2	390.0
80°	1180.7	482.1	422.2	370.0	330.1
82.5°	701.7	402.3	347.0	305.5	279.4
85°	394.6	310.2	265.6	244.1	242.6
87.5°	84.4	112.1	89.1	84.4	59.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)