

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-CL-UNV-L750-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CL-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

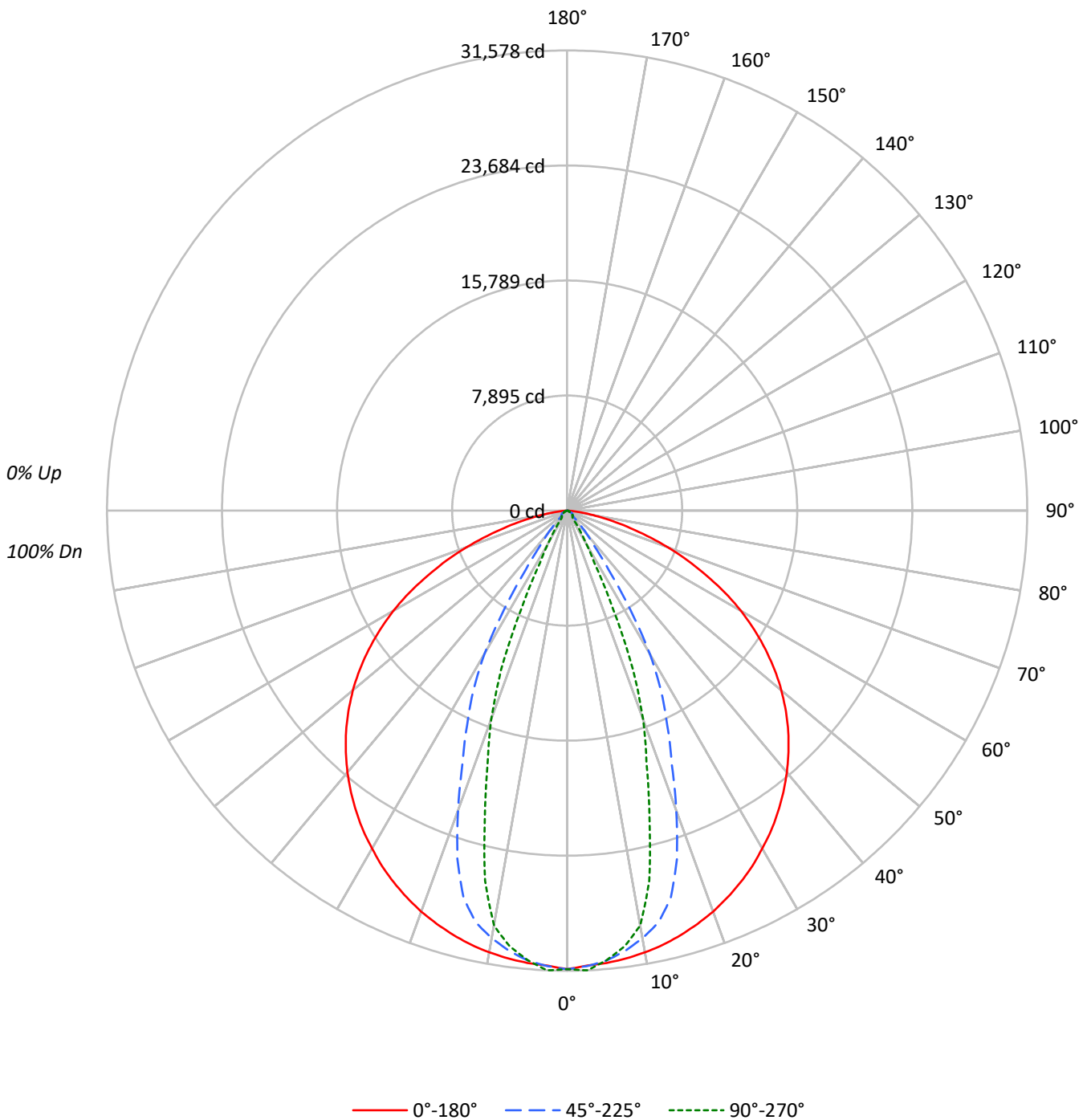
Lumens per Lamp: N/A
Luminaire Lumens: 33660.0 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 232
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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47					47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42347	42347	42347
5°	42086	41867	41836
10°	42058	40709	39508
15°	42010	38281	30378
20°	41928	31327	21790
25°	41797	24137	11073
30°	41599	17615	4029
35°	41450	8090	1402
40°	41195	3672	967
45°	40829	1370	981
50°	40178	994	1032
55°	38989	1046	786
60°	37050	1118	693
65°	33600	851	564
70°	28809	614	520
75°	22020	544	494
80°	13777	511	537
85°	4350	597	721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2930.1	8.7
10°-20°	7381.2	21.9
20°-30°	8038.5	23.9
30°-40°	6013.2	17.9
40°-50°	4323.6	12.8
50°-60°	2655.4	7.9
60°-70°	1527.9	4.5
70°-80°	682.0	2.0
80°-90°	108.2	0.3
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°	18349.8	54.5
0°-40°	24363.0	72.4
0°-60°	31341.9	93.1
0°-90°	33660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31473	31473	31473	31473	31473	
5°	31160	31307	30998	31027	30975	###
15°	30159	29581	27482	23602	21808	8513
25°	28154	26134	16258	10431	7458	12978
35°	25235	18099	4925	1448	854	15785
45°	21457	10169	720	533	515	16530
55°	16621	2113	446	432	335	14818
65°	10554	232	267	222	177	10447
75°	4236	140	105	108	95	4596
85°	282	27	39	50	47	562
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31473.0	31473.0	31473.0	31473.0	31473.0
2.5°	31254.0	31458.5	31286.2	31440.8	31577.7
5°	31160.5	31307.1	30997.9	31026.9	30975.3
7.5°	30999.5	31034.9	30476.1	30260.3	30155.6
10°	30783.7	30688.7	29796.4	29282.7	28917.1
12.5°	30511.5	30197.5	28950.9	27116.5	26023.0
15°	30158.8	29580.6	27482.1	23602.3	21808.2
17.5°	29738.5	28936.4	25050.2	19671.0	18118.5
20°	29282.7	28224.6	21879.1	16725.4	15217.9
22.5°	28744.8	27314.6	18751.4	13910.2	11840.6
25°	28153.7	26134.1	16258.3	10431.4	7458.4
27.5°	27515.9	24576.7	13950.4	6397.0	4032.8
30°	26775.1	22681.1	11338.1	3589.9	2593.0
32.5°	26051.9	20471.5	8099.4	2391.6	1657.2
35°	25235.4	18099.1	4925.0	1447.9	853.6
37.5°	24370.6	15942.6	3082.6	787.5	589.5
40°	23454.2	13897.3	2090.5	558.9	550.8
42.5°	22475.0	12046.8	1309.4	531.5	549.2
45°	21457.1	10168.9	719.9	533.1	515.4
47.5°	20352.3	8130.0	502.5	504.1	502.5
50°	19194.3	5831.7	475.1	497.7	492.8
52.5°	17946.1	3620.5	476.7	486.4	436.5
55°	16620.7	2113.0	446.1	431.6	335.0
57.5°	15227.6	1317.4	436.5	355.9	301.2
60°	13768.4	695.7	415.5	320.5	257.7
62.5°	12214.3	343.0	333.4	273.8	211.0
65°	10553.8	231.9	267.3	222.3	177.2
67.5°	8949.7	209.4	201.3	182.0	154.6
70°	7323.1	191.7	156.2	159.4	132.1
72.5°	5727.0	173.9	125.6	136.9	111.1
75°	4235.7	140.1	104.7	107.9	95.0
77.5°	2947.3	109.5	82.1	91.8	88.6
80°	1778.0	69.3	66.0	75.7	69.3
82.5°	861.6	45.1	51.5	59.6	54.8
85°	281.8	27.4	38.7	49.9	46.7
87.5°	35.4	16.1	32.2	43.5	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)