

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-LD5-36HE-W-UNV-L835-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

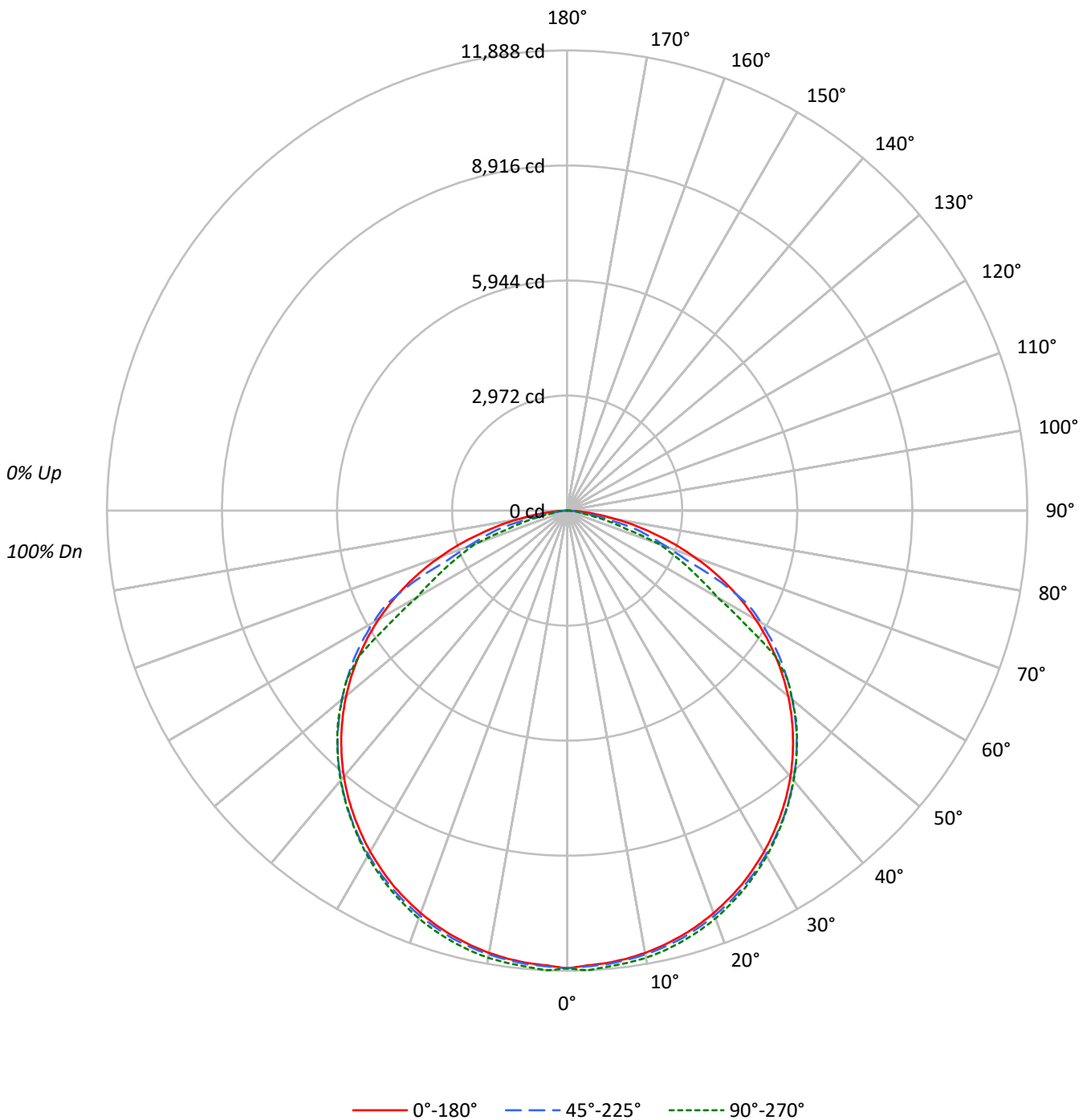
Lumens per Lamp: N/A
Luminaire Lumens: 34138.0 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 211.3
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	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15911	15911	15911
5°	15845	15889	15979
10°	15854	15910	16030
15°	15850	15935	16045
20°	15842	15943	16055
25°	15836	15949	16038
30°	15808	15962	16022
35°	15788	15970	15991
40°	15760	15969	15994
45°	15700	15962	15981
50°	15606	15894	15891
55°	15424	15810	15418
60°	15138	15577	12063
65°	14633	14019	10869
70°	13709	10786	10017
75°	12139	9404	6242
80°	9996	5536	2790
85°	6587	3392	3656



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1122.1	3.3
10°-20°	3237.5	9.5
20°-30°	4963.5	14.5
30°-40°	6087.2	17.8
40°-50°	6463.6	18.9
50°-60°	5903.7	17.3
60°-70°	4111.3	12.0
70°-80°	1917.5	5.6
80°-90°	331.7	1.0
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°	9323.1	27.3
0°-40°	15410.2	45.1
0°-60°	27777.4	81.4
0°-90°	34138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11825	11825	11825	11825	11825	
5°	11732	11814	11764	11821	11831	###
15°	11378	11458	11440	11509	11519	3213
25°	10667	10760	10743	10823	10803	4916
35°	9612	9723	9723	9788	9735	6015
45°	8251	8376	8389	8442	8398	6364
55°	6575	6707	6740	6751	6572	5872
65°	4596	4738	4403	3502	3414	4535
75°	2335	2482	1809	1253	1201	2496
85°	427	281	220	235	237	551
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11825.1	11825.1	11825.1	11825.1	11825.1
2.5°	11762.7	11837.9	11788.2	11842.1	11887.5
5°	11731.5	11813.8	11764.1	11820.8	11830.8
7.5°	11680.5	11758.5	11713.1	11775.5	11791.1
10°	11603.9	11680.5	11645.0	11718.8	11732.9
12.5°	11500.4	11578.4	11551.5	11632.3	11642.2
15°	11378.5	11457.9	11439.5	11508.9	11518.9
17.5°	11235.3	11317.6	11296.3	11370.0	11377.1
20°	11063.8	11153.1	11134.7	11221.1	11212.6
22.5°	10871.0	10966.0	10951.8	11038.3	11012.7
25°	10666.8	10760.4	10743.4	10822.8	10802.9
27.5°	10427.2	10530.7	10515.1	10591.7	10560.5
30°	10174.9	10279.8	10274.1	10343.6	10312.4
32.5°	9902.7	10014.7	10009.0	10077.1	10028.9
35°	9612.1	9722.6	9722.6	9787.8	9735.4
37.5°	9304.4	9416.4	9417.8	9480.2	9430.6
40°	8972.7	9084.7	9091.8	9151.3	9105.9
42.5°	8623.9	8745.8	8751.5	8805.4	8762.8
45°	8251.1	8375.8	8388.6	8442.4	8398.5
47.5°	7861.2	7987.4	7998.7	8056.8	8025.6
50°	7455.7	7577.6	7593.2	7641.4	7591.8
52.5°	7027.6	7152.3	7173.6	7203.4	7180.7
55°	6575.3	6707.2	6739.8	6751.1	6572.5
57.5°	6107.5	6242.2	6273.4	6012.5	5438.3
60°	5625.5	5758.7	5788.5	4891.1	4482.8
62.5°	5123.6	5254.0	5286.6	4053.2	3922.8
65°	4596.2	4738.0	4403.4	3501.7	3413.8
67.5°	4054.6	4200.7	3330.2	3001.3	2948.8
70°	3484.7	3632.2	2741.8	2559.0	2546.2
72.5°	2937.5	3046.7	2249.9	1939.4	1633.2
75°	2335.0	2482.4	1809.0	1253.3	1200.8
77.5°	1810.4	1565.1	1091.6	918.7	724.4
80°	1290.1	1046.3	714.5	381.4	360.1
82.5°	818.0	683.3	280.7	287.8	300.6
85°	426.7	280.7	219.7	235.3	236.8
87.5°	137.5	120.5	131.8	130.4	129.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)