

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-LD5-30HE-N-UNV-L740-ED2-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-LD5-30HE-N-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

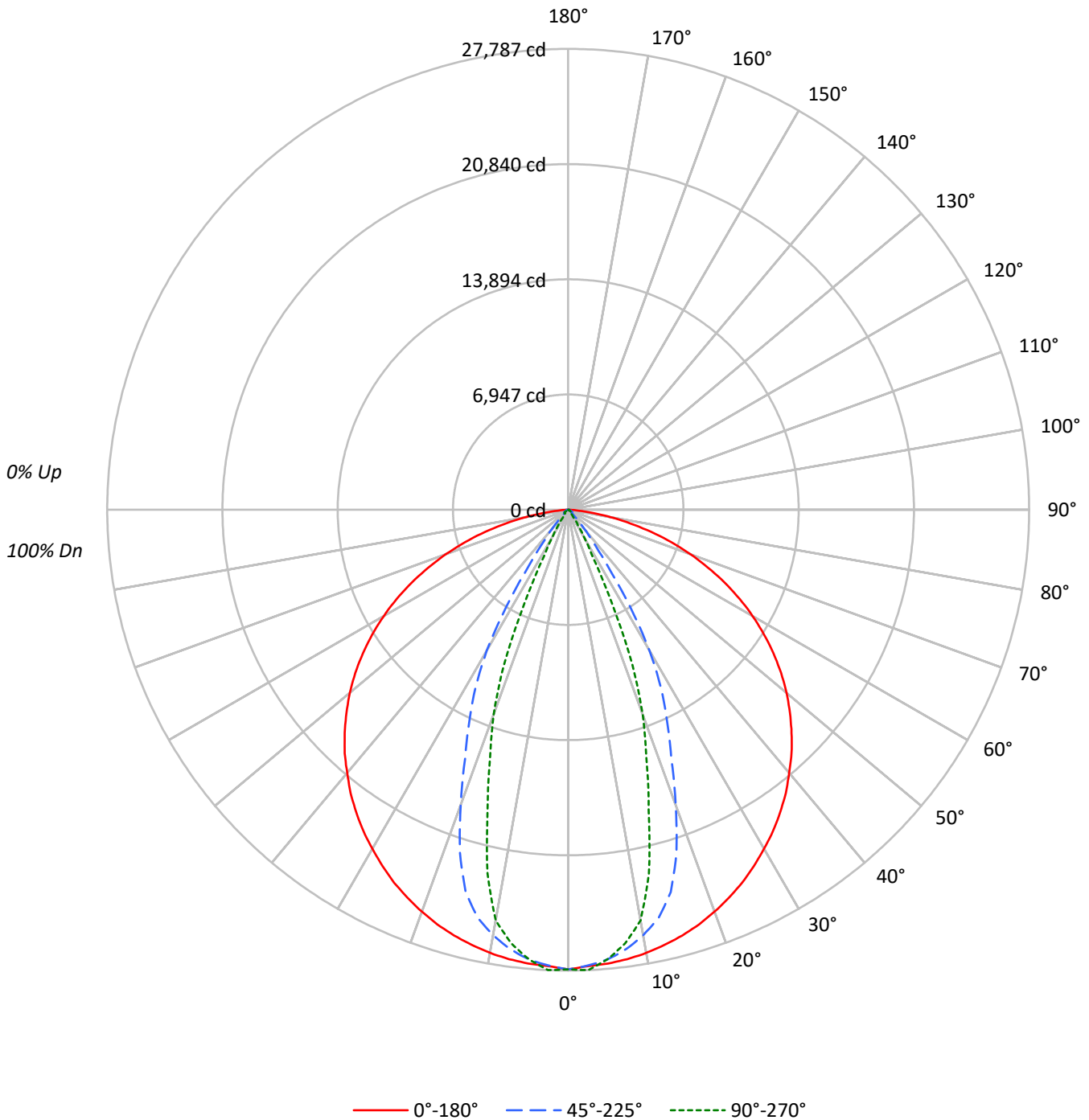
Lumens per Lamp: N/A
Luminaire Lumens: 29463.0 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 180
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	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	76	81	77	74	73				73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66				66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55				55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51				51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44				44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37297	37297	37297
5°	37098	36770	36754
10°	37074	35592	34343
15°	37022	33251	26137
20°	36936	27106	18814
25°	36842	20959	9268
30°	36679	15232	3006
35°	36592	6758	773
40°	36401	2745	521
45°	36238	770	554
50°	35955	547	616
55°	35438	650	263
60°	34563	724	160
65°	33141	462	189
70°	30789	410	233
75°	26934	308	322
80°	20139	378	459
85°	9976	488	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2572.5	8.7
10°-20°	6432.5	21.8
20°-30°	6967.3	23.6
30°-40°	5159.6	17.5
40°-50°	3716.3	12.6
50°-60°	2301.1	7.8
60°-70°	1415.1	4.8
70°-80°	746.0	2.5
80°-90°	152.7	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°	15972.2	54.2
0°-40°	21131.8	71.7
0°-60°	27149.2	92.1
0°-90°	29463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27720	27720	27720	27720	27720	
5°	27467	27568	27224	27244	27212	###
15°	26578	25961	23871	20300	18764	7503
25°	24816	22732	14118	8881	6243	11435
35°	22278	15706	4114	968	471	13937
45°	19044	8848	405	293	291	14687
55°	15107	1822	277	251	112	13486
65°	10410	192	145	92	59	10271
75°	5181	45	59	78	62	5472
85°	646	17	32	48	40	976
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27720.1	27720.1	27720.1	27720.1	27720.1
2.5°	27542.1	27717.5	27510.5	27664.7	27787.4
5°	27466.9	27568.5	27224.3	27244.1	27212.4
7.5°	27335.1	27311.3	26732.4	26479.2	26368.5
10°	27136.0	26979.0	26050.7	25521.9	25136.8
12.5°	26878.8	26528.0	25200.1	23518.8	22474.4
15°	26578.1	25961.0	23870.9	20299.9	18763.6
17.5°	26219.5	25345.2	21697.7	17013.7	15642.3
20°	25796.2	24658.1	18931.1	14475.2	13139.4
22.5°	25324.1	23822.1	16243.6	12030.4	10124.9
25°	24816.4	22731.5	14117.9	8881.4	6242.7
27.5°	24229.6	21329.8	12124.0	5231.2	3185.9
30°	23608.5	19641.8	9804.4	2814.1	1934.5
32.5°	22982.1	17728.4	6937.6	1757.8	1097.1
35°	22277.9	15705.6	4114.3	967.9	470.8
37.5°	21543.4	13851.5	2431.7	440.4	302.0
40°	20724.5	12157.0	1562.6	292.7	296.7
42.5°	19933.3	10577.2	879.6	288.8	294.1
45°	19044.5	8848.4	404.8	292.7	291.4
47.5°	18125.4	7056.3	262.4	295.4	295.4
50°	17177.2	5045.3	261.1	302.0	294.1
52.5°	16176.3	3147.7	271.6	300.7	241.3
55°	15106.9	1822.4	276.9	250.6	112.1
57.5°	13999.2	1074.7	279.6	143.7	63.3
60°	12844.0	594.7	269.0	106.8	59.3
62.5°	11653.2	283.5	212.3	100.2	58.0
65°	10409.7	192.5	145.1	92.3	59.3
67.5°	9118.7	149.0	114.7	87.0	60.7
70°	7826.4	110.8	104.2	87.0	59.3
72.5°	6513.0	75.2	87.0	88.4	59.3
75°	5181.1	44.8	59.3	77.8	62.0
77.5°	3861.1	27.7	46.2	80.4	75.2
80°	2599.1	23.7	48.8	75.2	59.3
82.5°	1525.7	21.1	47.5	58.0	47.5
85°	646.2	17.1	31.6	47.5	39.6
87.5°	121.3	14.5	25.1	38.2	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)