

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-L735-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-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

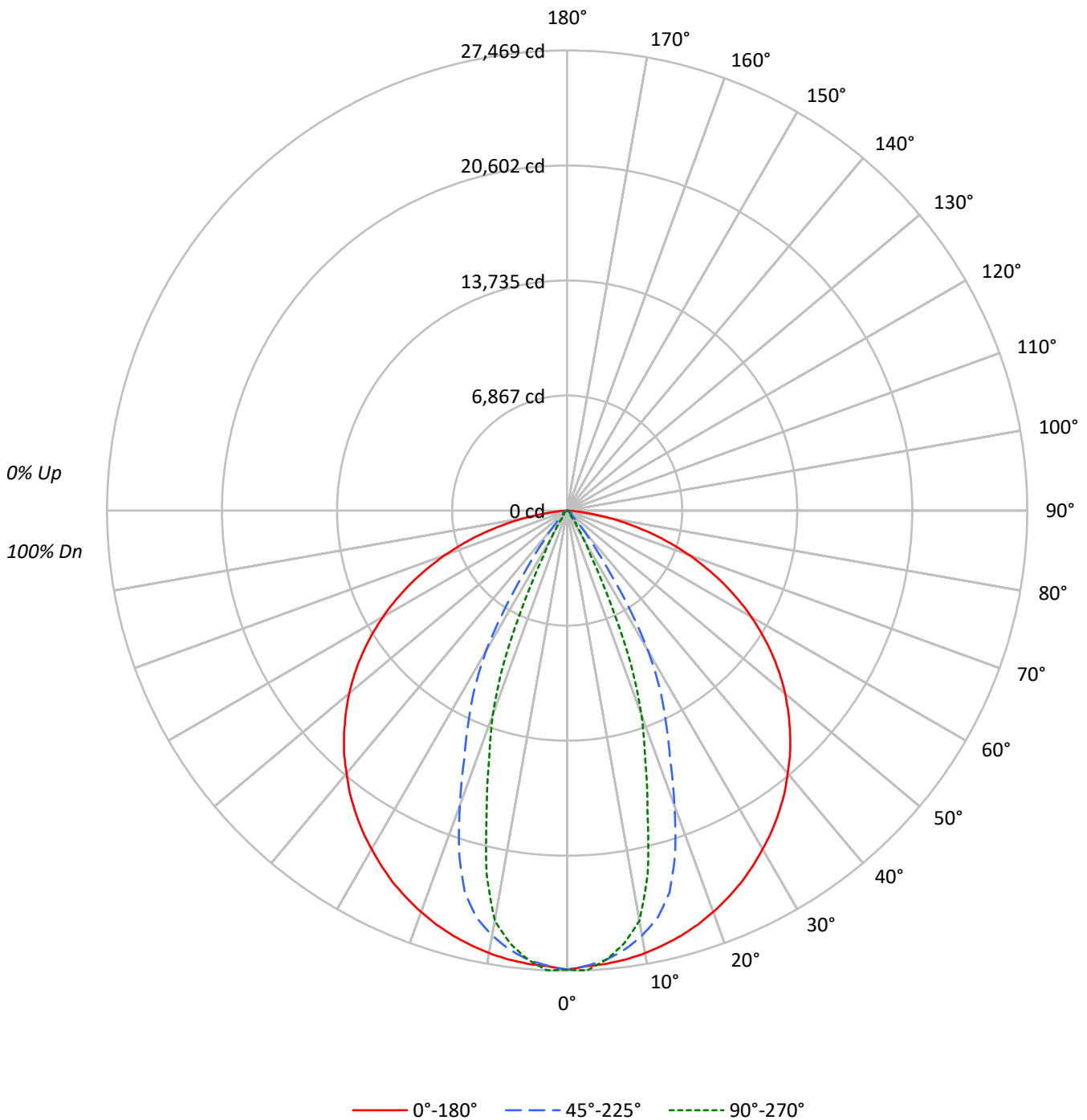
Lumens per Lamp: N/A
Luminaire Lumens: 29125.0 lumens
Efficiency: N/A
Efficacy: 161.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-30HE-N-UNV-L735-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-N-UNV-L735-ED2-U

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	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°	36869	36869	36869
5°	36672	36348	36332
10°	36649	35183	33949
15°	36597	32870	25837
20°	36512	26795	18598
25°	36419	20719	9162
30°	36258	15058	2971
35°	36172	6680	764
40°	35983	2713	515
45°	35822	762	548
50°	35543	540	608
55°	35031	642	260
60°	34167	716	158
65°	32761	457	187
70°	30435	405	231
75°	26626	305	319
80°	19908	373	455
85°	9860	483	604



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-N-UNV-L735-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2543.0	8.7
10°-20°	6358.7	21.8
20°-30°	6887.4	23.6
30°-40°	5100.4	17.5
40°-50°	3673.6	12.6
50°-60°	2274.7	7.8
60°-70°	1398.9	4.8
70°-80°	737.4	2.5
80°-90°	150.9	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°	15789.0	54.2
0°-40°	20889.4	71.7
0°-60°	26837.7	92.1
0°-90°	29125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27402	27402	27402	27402	27402	
5°	27152	27252	26912	26932	26900	###
15°	26273	25663	23597	20067	18548	7417
25°	24532	22471	13956	8780	6171	11303
35°	22022	15525	4067	957	465	13778
45°	18826	8747	400	289	288	14519
55°	14934	1802	274	248	111	13331
65°	10290	190	143	91	59	10153
75°	5122	44	59	77	61	5410
85°	639	17	31	47	39	965
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-N-UNV-L735-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27402.1	27402.1	27402.1	27402.1	27402.1
2.5°	27226.1	27399.5	27194.9	27347.4	27468.6
5°	27151.8	27252.2	26912.0	26931.5	26900.3
7.5°	27021.5	26998.0	26425.8	26175.5	26066.0
10°	26824.6	26669.5	25751.8	25229.1	24848.5
12.5°	26570.5	26223.7	24911.0	23249.0	22216.6
15°	26273.2	25663.2	23597.0	20067.0	18548.3
17.5°	25918.7	25054.4	21448.8	16818.5	15462.8
20°	25500.2	24375.3	18713.9	14309.2	12988.7
22.5°	25033.6	23548.8	16057.2	11892.4	10008.7
25°	24531.7	22470.8	13955.9	8779.5	6171.1
27.5°	23951.6	21085.1	11984.9	5171.2	3149.4
30°	23337.6	19416.5	9692.0	2781.8	1912.3
32.5°	22718.4	17525.1	6858.0	1737.6	1084.6
35°	22022.3	15525.4	4067.1	956.8	465.4
37.5°	21296.3	13692.6	2403.8	435.4	298.5
40°	20486.7	12017.5	1544.7	289.4	293.3
42.5°	19704.6	10455.9	869.5	285.5	290.7
45°	18826.0	8746.9	400.2	289.4	288.1
47.5°	17917.4	6975.3	259.4	292.0	292.0
50°	16980.2	4987.4	258.1	298.5	290.7
52.5°	15990.8	3111.6	268.5	297.2	238.6
55°	14933.6	1801.5	273.7	247.7	110.8
57.5°	13838.6	1062.4	276.4	142.1	62.6
60°	12696.7	587.9	265.9	105.6	58.7
62.5°	11519.6	280.3	209.9	99.1	57.4
65°	10290.3	190.3	143.4	91.2	58.7
67.5°	9014.1	147.3	113.4	86.0	60.0
70°	7736.6	109.5	103.0	86.0	58.7
72.5°	6438.3	74.3	86.0	87.3	58.7
75°	5121.7	44.3	58.7	76.9	61.3
77.5°	3816.8	27.4	45.6	79.5	74.3
80°	2569.3	23.5	48.2	74.3	58.7
82.5°	1508.2	20.9	46.9	57.4	46.9
85°	638.7	16.9	31.3	46.9	39.1
87.5°	119.9	14.3	24.8	37.8	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)