

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-LD5-30SE-N-CL-UNV-L735-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-LD5-30SE-N-CL-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

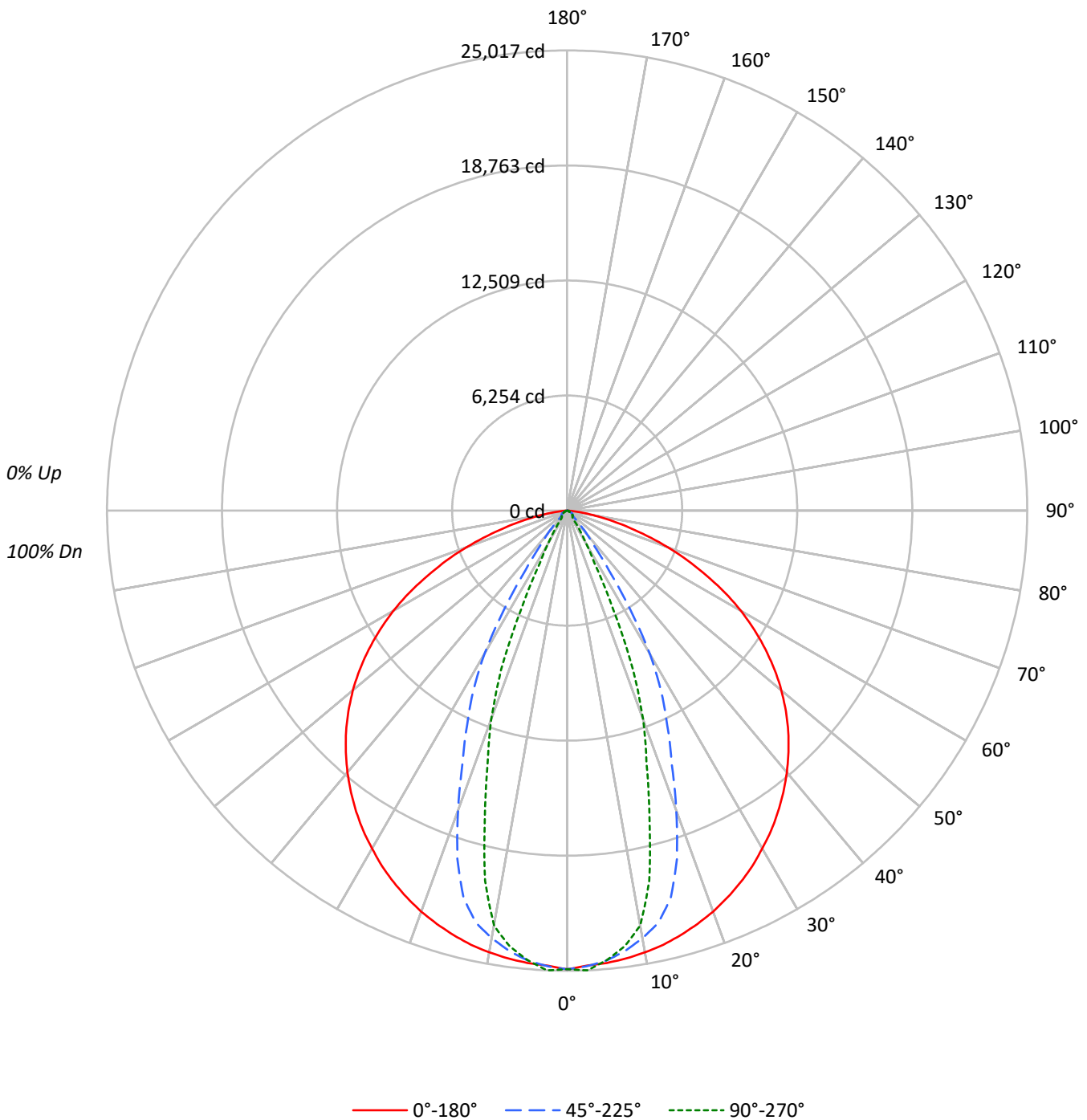
Lumens per Lamp: N/A
Luminaire Lumens: 26667.0 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
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-LD5-30SE-N-CL-UNV-L735-ED3-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-N-CL-UNV-L735-ED3-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	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°	33549	33549	33549
5°	33343	33169	33145
10°	33320	32252	31300
15°	33282	30328	24067
20°	33217	24819	17263
25°	33113	19122	8772
30°	32956	13956	3192
35°	32839	6409	1111
40°	32637	2909	766
45°	32346	1085	777
50°	31831	788	817
55°	30889	829	623
60°	29353	886	549
65°	26620	674	447
70°	22824	487	411
75°	17445	431	391
80°	10914	405	425
85°	3447	472	571



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-N-CL-UNV-L735-ED3-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2321.4	8.7
10°-20°	5847.7	21.9
20°-30°	6368.4	23.9
30°-40°	4763.9	17.9
40°-50°	3425.4	12.8
50°-60°	2103.7	7.9
60°-70°	1210.5	4.5
70°-80°	540.3	2.0
80°-90°	85.7	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°	14537.5	54.5
0°-40°	19301.4	72.4
0°-60°	24830.5	93.1
0°-90°	26667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24934	24934	24934	24934	24934	
5°	24687	24803	24558	24581	24540	###
15°	23893	23435	21773	18699	17278	6745
25°	22305	20705	12881	8264	5909	10282
35°	19993	14339	3902	1147	676	12506
45°	16999	8056	570	422	408	13096
55°	13168	1674	353	342	265	11740
65°	8361	184	212	176	140	8277
75°	3356	111	83	86	75	3641
85°	223	22	31	40	37	445
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-N-CL-UNV-L735-ED3-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24934.4	24934.4	24934.4	24934.4	24934.4
2.5°	24760.8	24922.9	24786.3	24908.8	25017.3
5°	24686.8	24802.9	24558.0	24580.9	24540.1
7.5°	24559.2	24587.3	24144.5	23973.6	23890.6
10°	24388.3	24313.0	23606.1	23199.1	22909.4
12.5°	24172.6	23923.8	22936.2	21482.9	20616.6
15°	23893.2	23435.1	21772.6	18698.8	17277.5
17.5°	23560.2	22924.8	19845.9	15584.3	14354.3
20°	23199.1	22360.8	17333.6	13250.6	12056.3
22.5°	22772.9	21639.9	14855.7	11020.3	9380.7
25°	22304.6	20704.6	12880.6	8264.2	5908.9
27.5°	21799.4	19470.8	11052.2	5068.0	3194.9
30°	21212.4	17969.0	8982.6	2844.1	2054.3
32.5°	20639.5	16218.4	6416.7	1894.8	1312.9
35°	19992.6	14339.0	3901.8	1147.1	676.2
37.5°	19307.5	12630.5	2442.1	623.9	467.0
40°	18581.5	11010.1	1656.2	442.7	436.4
42.5°	17805.7	9544.0	1037.3	421.1	435.1
45°	16999.3	8056.3	570.3	422.3	408.3
47.5°	16124.0	6440.9	398.1	399.4	398.1
50°	15206.6	4620.2	376.4	394.3	390.4
52.5°	14217.8	2868.3	377.7	385.3	345.8
55°	13167.7	1674.0	353.4	342.0	265.4
57.5°	12064.0	1043.7	345.8	282.0	238.6
60°	10908.0	551.2	329.2	253.9	204.1
62.5°	9676.7	271.8	264.1	216.9	167.1
65°	8361.2	183.7	211.8	176.1	140.4
67.5°	7090.4	165.9	159.5	144.2	122.5
70°	5801.7	151.8	123.8	126.3	104.6
72.5°	4537.2	137.8	99.5	108.5	88.0
75°	3355.7	111.0	82.9	85.5	75.3
77.5°	2335.0	86.8	65.1	72.7	70.2
80°	1408.6	54.9	52.3	60.0	54.9
82.5°	682.6	35.7	40.8	47.2	43.4
85°	223.3	21.7	30.6	39.6	37.0
87.5°	28.1	12.8	25.5	34.5	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)