

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-N-CLI-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-N-CLI-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

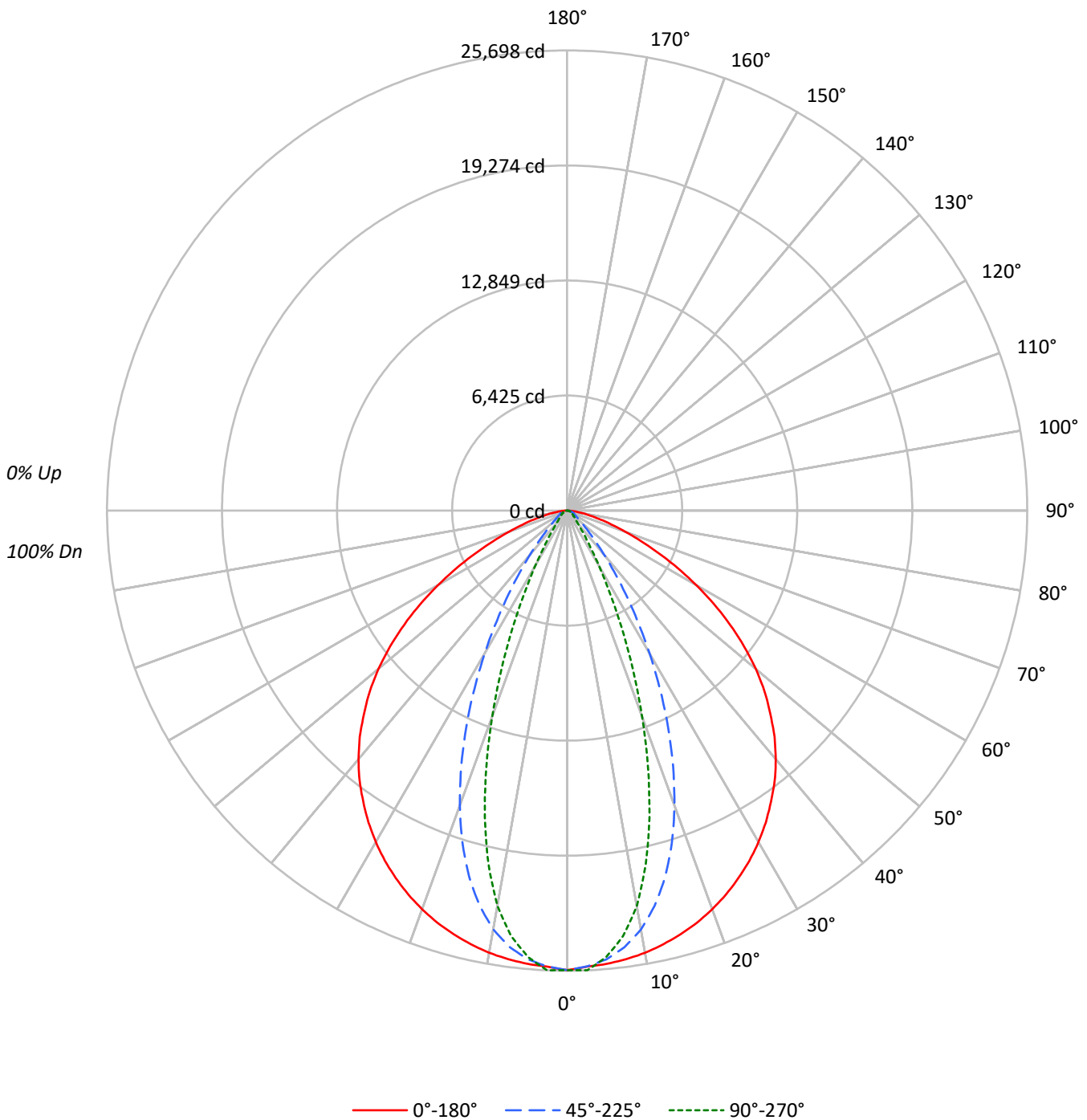
Lumens per Lamp: N/A
Luminaire Lumens: 28095.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34529	34529	34529
5°	34321	33980	33801
10°	34264	32441	30613
15°	34126	29489	24723
20°	33921	25092	17523
25°	33618	19786	10587
30°	33209	14280	5441
35°	32610	9336	2717
40°	31837	5608	1586
45°	30514	3349	1186
50°	28780	2190	996
55°	26047	1662	869
60°	22384	1415	793
65°	18005	1291	749
70°	13565	1382	744
75°	9978	1314	766
80°	7300	1309	838
85°	5467	1585	1085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2363.4	8.4
10°-20°	5879.6	20.9
20°-30°	6512.6	23.2
30°-40°	5217.7	18.6
40°-50°	3724.8	13.3
50°-60°	2392.5	8.5
60°-70°	1296.6	4.6
70°-80°	554.2	2.0
80°-90°	153.7	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°	14755.6	52.5
0°-40°	19973.3	71.1
0°-60°	26090.6	92.9
0°-90°	28095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25663	25663	25663	25663	25663	
5°	25411	25506	25159	25079	25026	###
15°	24499	23733	21170	18708	17749	6912
25°	22644	19967	13327	8683	7131	10432
35°	19853	14360	5684	2292	1654	12413
45°	16036	8290	1760	749	623	12360
55°	11104	3706	708	435	370	9896
65°	5655	1522	406	280	235	5663
75°	1919	557	253	176	147	2133
85°	354	147	103	85	70	432
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25662.8	25662.8	25662.8	25662.8	25662.8
2.5°	25493.8	25653.3	25481.6	25588.4	25697.9
5°	25411.3	25506.0	25158.6	25078.8	25026.1
7.5°	25268.1	25241.0	24588.2	24165.1	23961.0
10°	25078.8	24859.9	23744.7	22814.8	22406.6
12.5°	24808.5	24357.0	22602.6	20969.8	20277.7
15°	24499.0	23732.6	21169.8	18708.4	17748.7
17.5°	24128.6	23002.7	19457.2	16283.5	15017.0
20°	23690.7	22121.4	17524.4	13707.3	12238.0
22.5°	23201.4	21104.9	15455.0	11139.1	9563.0
25°	22644.5	19966.8	13327.4	8683.1	7131.4
27.5°	22043.0	18703.0	11212.1	6488.0	5072.8
30°	21375.3	17335.1	9191.3	4678.1	3502.2
32.5°	20646.7	15880.7	7313.9	3290.0	2395.2
35°	19853.3	14360.1	5683.8	2292.4	1654.4
37.5°	19040.9	12808.4	4292.9	1620.6	1186.8
40°	18125.9	11262.1	3192.6	1186.8	902.9
42.5°	17143.2	9745.5	2362.7	913.7	731.3
45°	16036.2	8289.8	1759.9	748.8	623.1
47.5°	14963.0	6932.7	1336.8	638.0	542.0
50°	13749.2	5708.1	1046.2	556.9	475.8
52.5°	12461.0	4630.8	848.8	490.7	419.0
55°	11103.9	3706.3	708.3	435.2	370.4
57.5°	9729.3	2935.8	605.5	387.9	329.8
60°	8318.2	2347.8	525.8	347.4	294.7
62.5°	6940.8	1877.5	459.6	312.2	263.6
65°	5655.4	1522.0	405.5	279.8	235.2
67.5°	4467.3	1203.0	378.5	251.4	212.2
70°	3448.1	936.7	351.4	224.4	189.2
72.5°	2612.8	719.1	310.9	200.0	167.6
75°	1919.4	556.9	252.8	175.7	147.3
77.5°	1373.3	428.5	205.5	152.7	127.1
80°	942.1	319.0	169.0	131.1	108.1
82.5°	612.3	225.7	136.5	108.1	89.2
85°	354.1	147.3	102.7	85.2	70.3
87.5°	152.7	81.1	70.3	63.5	54.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)