

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-CLI-UNV-L835-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 (P23769)
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-CLI-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

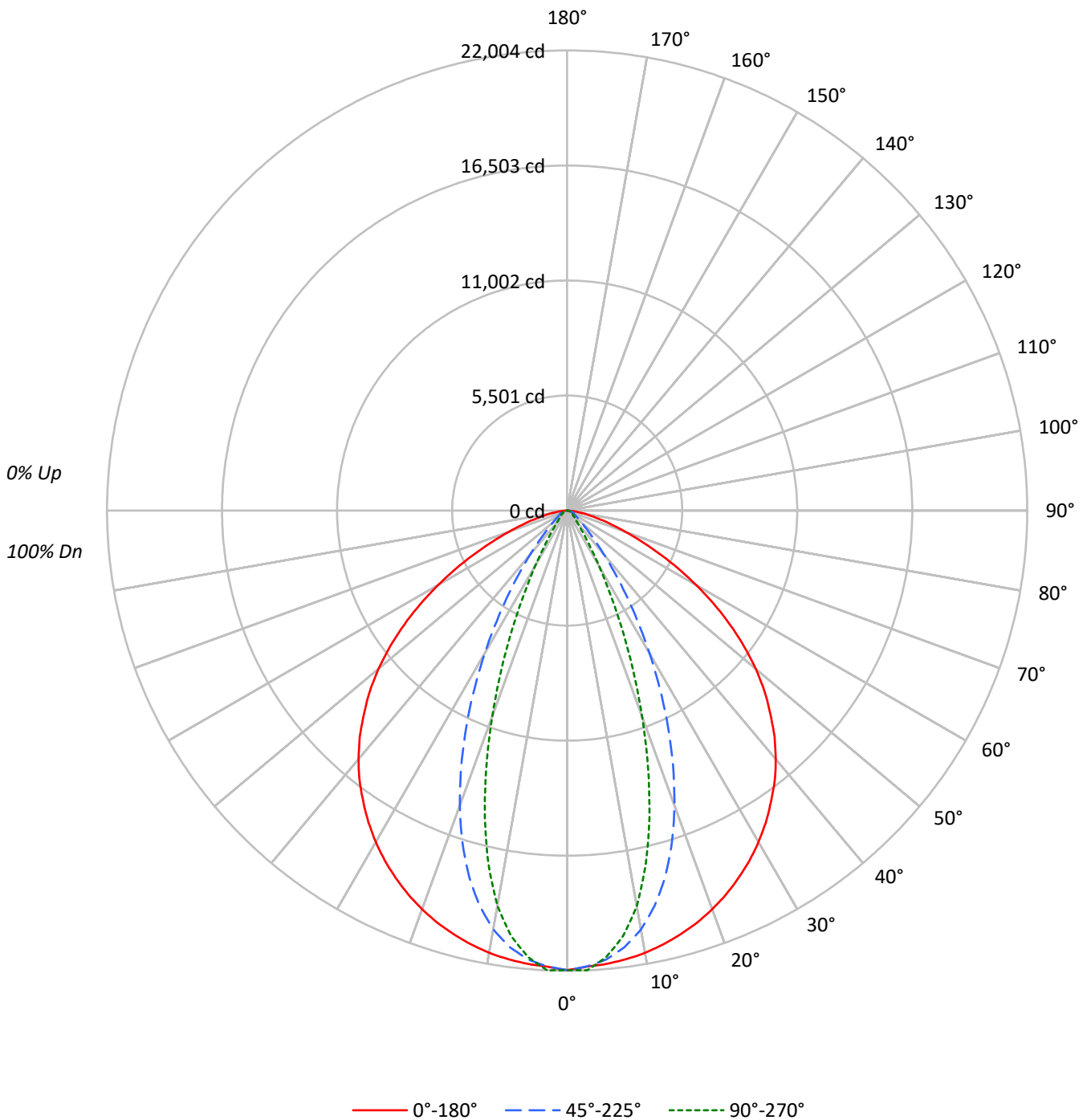
Lumens per Lamp: N/A
Luminaire Lumens: 24057.0 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	29566	29566	29566
5°	29388	29096	28943
10°	29339	27779	26213
15°	29221	25250	21170
20°	29046	21486	15004
25°	28786	16942	9065
30°	28436	12228	4659
35°	27923	7994	2327
40°	27261	4802	1358
45°	26128	2867	1015
50°	24643	1875	853
55°	22304	1423	744
60°	19167	1211	679
65°	15417	1105	641
70°	11615	1184	637
75°	8544	1125	656
80°	6251	1121	717
85°	4681	1359	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2023.7	8.4
10°-20°	5034.6	20.9
20°-30°	5576.5	23.2
30°-40°	4467.8	18.6
40°-50°	3189.4	13.3
50°-60°	2048.6	8.5
60°-70°	1110.2	4.6
70°-80°	474.5	2.0
80°-90°	131.6	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°	12634.8	52.5
0°-40°	17102.6	71.1
0°-60°	22340.7	92.9
0°-90°	24057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21974	21974	21974	21974	21974	
5°	21759	21840	21543	21474	21429	###
15°	20978	20322	18127	16020	15198	5919
25°	19390	17097	11412	7435	6106	8933
35°	17000	12296	4867	1963	1417	10629
45°	13731	7098	1507	641	534	10584
55°	9508	3174	606	373	317	8473
65°	4842	1303	347	240	201	4849
75°	1644	477	216	150	126	1826
85°	303	126	88	73	60	370
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21974.3	21974.3	21974.3	21974.3	21974.3
2.5°	21829.7	21966.2	21819.2	21910.7	22004.4
5°	21759.1	21840.1	21542.6	21474.3	21429.2
7.5°	21636.4	21613.2	21054.2	20691.9	20517.2
10°	21474.3	21286.8	20332.0	19535.7	19186.2
12.5°	21242.9	20856.3	19354.0	17955.9	17363.3
15°	20977.8	20321.6	18127.1	16019.5	15197.8
17.5°	20660.7	19696.6	16660.7	13943.2	12858.7
20°	20285.7	18942.0	15005.6	11737.2	10479.1
22.5°	19866.7	18071.6	13233.7	9538.1	8188.6
25°	19389.9	17097.1	11411.9	7435.1	6106.4
27.5°	18874.8	16014.9	9600.6	5555.5	4343.7
30°	18303.1	14843.6	7870.3	4005.7	2998.8
32.5°	17679.2	13598.3	6262.7	2817.1	2050.9
35°	16999.8	12296.2	4866.9	1962.9	1416.7
37.5°	16304.2	10967.5	3675.9	1387.7	1016.2
40°	15520.7	9643.4	2733.8	1016.2	773.1
42.5°	14679.3	8344.8	2023.1	782.4	626.2
45°	13731.4	7098.3	1506.9	641.2	533.6
47.5°	12812.4	5936.3	1144.7	546.3	464.1
50°	11773.0	4887.7	895.8	476.8	407.4
52.5°	10670.0	3965.2	726.8	420.1	358.8
55°	9508.0	3173.6	606.5	372.7	317.1
57.5°	8330.9	2513.9	518.5	332.2	282.4
60°	7122.6	2010.4	450.2	297.5	252.3
62.5°	5943.2	1607.6	393.5	267.4	225.7
65°	4842.5	1303.2	347.2	239.6	201.4
67.5°	3825.2	1030.1	324.1	215.3	181.7
70°	2952.5	802.1	300.9	192.1	162.0
72.5°	2237.2	615.7	266.2	171.3	143.5
75°	1643.5	476.8	216.4	150.5	126.2
77.5°	1175.9	366.9	175.9	130.8	108.8
80°	806.7	273.1	144.7	112.3	92.6
82.5°	524.3	193.3	116.9	92.6	76.4
85°	303.2	126.2	88.0	72.9	60.2
87.5°	130.8	69.4	60.2	54.4	46.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)