

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-CL-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 (P23768)
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-CL-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

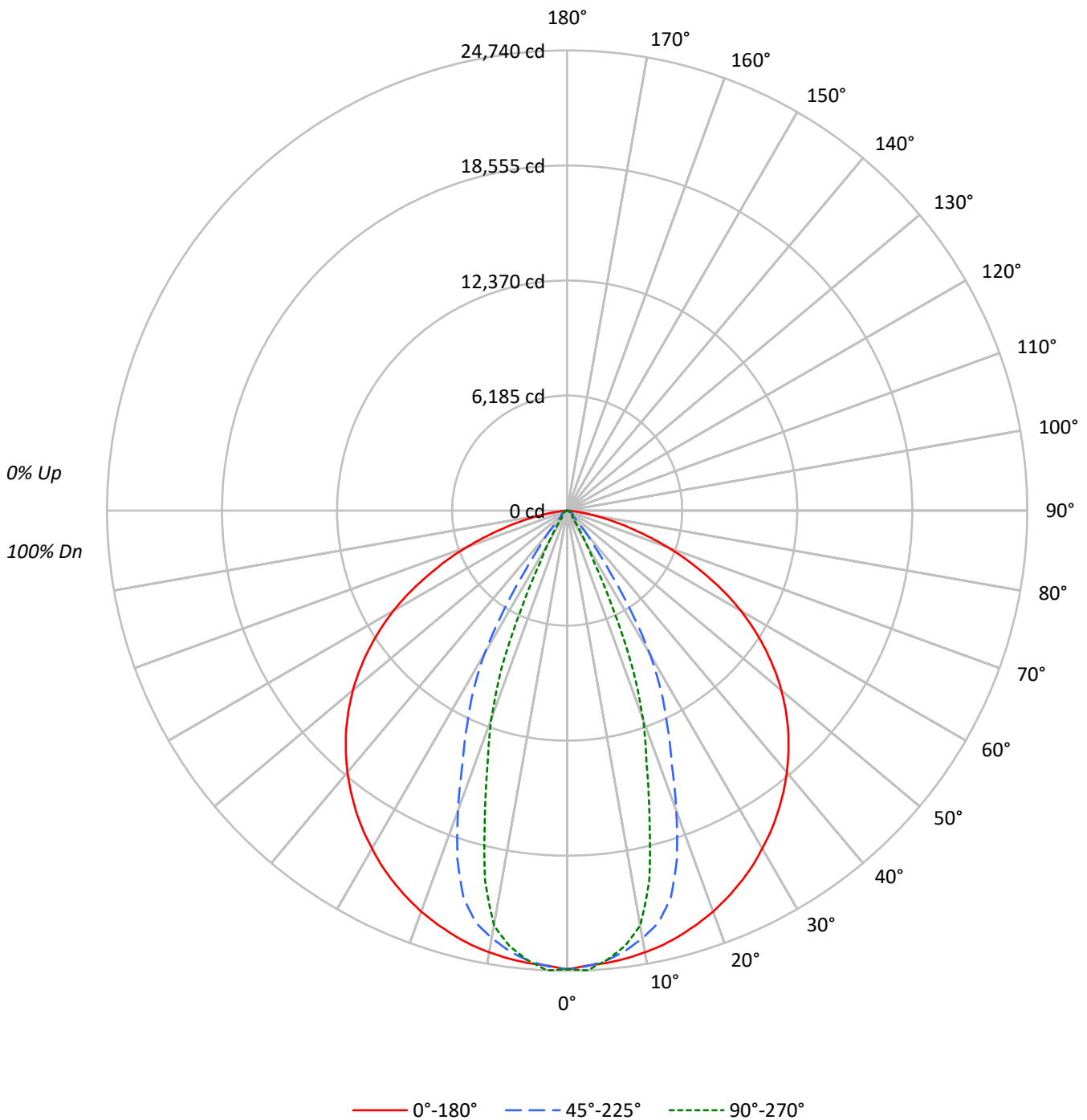
Lumens per Lamp: N/A
Luminaire Lumens: 26372.0 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	33178	33178	33178
5°	32974	32802	32778
10°	32952	31895	30954
15°	32914	29993	23800
20°	32850	24544	17072
25°	32747	18911	8675
30°	32592	13801	3156
35°	32475	6338	1099
40°	32276	2877	758
45°	31989	1073	768
50°	31479	779	808
55°	30547	820	616
60°	29028	876	543
65°	26325	667	442
70°	22571	482	407
75°	17252	426	387
80°	10794	401	421
85°	3409	468	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2295.7	8.7
10°-20°	5783.0	21.9
20°-30°	6298.0	23.9
30°-40°	4711.2	17.9
40°-50°	3387.5	12.8
50°-60°	2080.4	7.9
60°-70°	1197.1	4.5
70°-80°	534.3	2.0
80°-90°	84.8	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°	14376.7	54.5
0°-40°	19087.9	72.4
0°-60°	24555.8	93.1
0°-90°	26372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24658	24658	24658	24658	24658	
5°	24414	24529	24286	24309	24269	###
15°	23629	23176	21532	18492	17086	6670
25°	22058	20476	12738	8173	5844	10168
35°	19772	14180	3859	1134	669	12368
45°	16811	7967	564	418	404	12951
55°	13022	1656	350	338	262	11610
65°	8269	182	210	174	139	8185
75°	3319	110	82	84	74	3601
85°	221	22	30	39	37	440
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24658.5	24658.5	24658.5	24658.5	24658.5
2.5°	24486.9	24647.2	24512.1	24633.3	24740.5
5°	24413.7	24528.6	24286.3	24309.0	24268.6
7.5°	24287.5	24315.3	23877.5	23708.4	23626.3
10°	24118.5	24044.0	23345.0	22942.4	22656.0
12.5°	23905.2	23659.2	22682.5	21245.3	20388.5
15°	23628.9	23175.9	21531.7	18492.0	17086.3
17.5°	23299.5	22671.1	19626.4	15411.9	14195.5
20°	22942.4	22113.4	17141.8	13104.0	11923.0
22.5°	22521.0	21400.5	14691.4	10898.4	9276.9
25°	22057.9	20475.6	12738.1	8172.8	5843.5
27.5°	21558.2	19255.4	10929.9	5012.0	3159.6
30°	20977.8	17770.2	8883.2	2812.6	2031.5
32.5°	20411.2	16039.0	6345.7	1873.8	1298.4
35°	19771.5	14180.4	3858.7	1134.4	668.8
37.5°	19093.9	12490.8	2415.1	617.0	461.8
40°	18375.9	10888.3	1637.8	437.9	431.5
42.5°	17608.7	9438.4	1025.9	416.4	430.3
45°	16811.2	7967.1	564.0	417.7	403.8
47.5°	15945.6	6369.7	393.7	395.0	393.7
50°	15038.4	4569.1	372.2	389.9	386.1
52.5°	14060.5	2836.6	373.5	381.1	342.0
55°	13022.0	1655.5	349.5	338.2	262.5
57.5°	11930.5	1032.2	342.0	278.9	236.0
60°	10787.3	545.1	325.5	251.1	201.9
62.5°	9569.7	268.8	261.2	214.5	165.3
65°	8268.7	181.7	209.5	174.1	138.8
67.5°	7011.9	164.0	157.7	142.6	121.1
70°	5737.5	150.2	122.4	124.9	103.5
72.5°	4487.0	136.3	98.4	107.3	87.1
75°	3318.6	109.8	82.0	84.5	74.4
77.5°	2309.1	85.8	64.4	71.9	69.4
80°	1393.1	54.3	51.7	59.3	54.3
82.5°	675.1	35.3	40.4	46.7	42.9
85°	220.8	21.5	30.3	39.1	36.6
87.5°	27.8	12.6	25.2	34.1	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)