

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-W-AWG-UNV-L840-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 (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-W-AWG-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

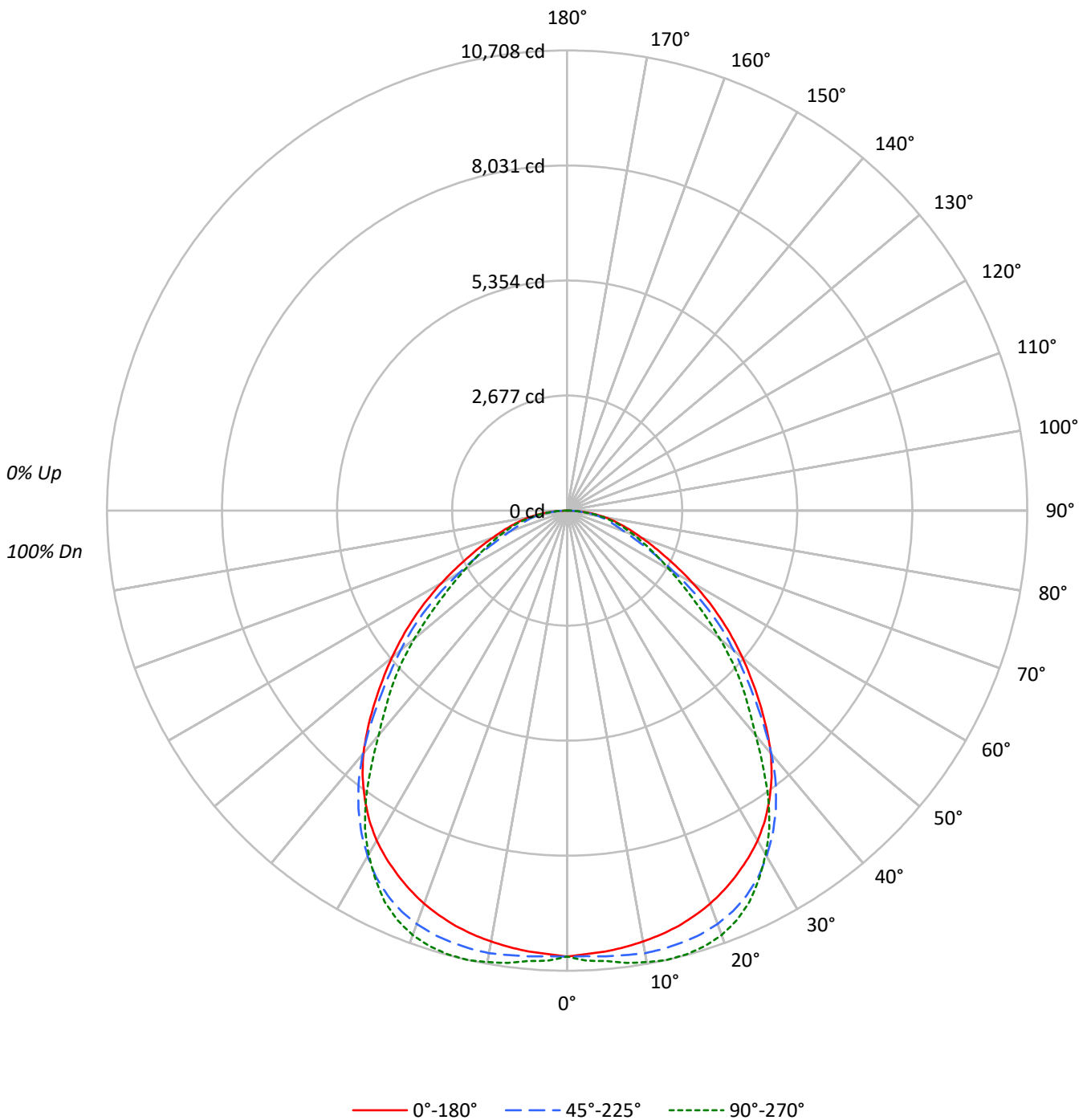
Lumens per Lamp: N/A
Luminaire Lumens: 25725.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42					42			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38					38			
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13963	13963	13963
5°	13909	14064	14207
10°	13912	14290	14577
15°	13939	14488	14896
20°	13936	14654	15048
25°	13876	14673	14911
30°	13773	14429	14353
35°	13481	13907	13400
40°	12954	12991	11980
45°	12057	11712	10952
50°	11145	10591	9705
55°	10202	9386	8374
60°	9097	7790	7395
65°	7978	6411	6795
70°	7204	5522	6470
75°	6885	5413	6452
80°	6941	5731	6295
85°	6149	5249	5494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	996.8	3.9
10°-20°	2937.7	11.4
20°-30°	4506.0	17.5
30°-40°	5182.5	20.1
40°-50°	4726.8	18.4
50°-60°	3542.8	13.8
60°-70°	2179.2	8.5
70°-80°	1248.8	4.9
80°-90°	404.3	1.6
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°	8440.5	32.8
0°-40°	13623.0	53.0
0°-60°	21892.6	85.1
0°-90°	25725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25725.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10377	10377	10377	10377	10377	
5°	10298	10402	10413	10499	10519	979
15°	10007	10229	10401	10623	10694	2825
25°	9346	9615	9884	10036	10044	4307
35°	8207	8367	8467	8328	8158	5118
45°	6336	6474	6155	5838	5756	4890
55°	4349	4188	4001	3648	3570	3886
65°	2506	2241	2014	2076	2134	2520
75°	1324	1187	1041	1192	1241	1416
85°	398	376	340	359	356	444
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10377.3	10377.3	10377.3	10377.3	10377.3
2.5°	10328.3	10402.4	10378.6	10439.4	10484.4
5°	10297.9	10402.4	10413.0	10499.0	10518.8
7.5°	10246.3	10382.5	10430.2	10582.3	10616.7
10°	10182.8	10346.8	10459.3	10623.4	10669.7
12.5°	10106.0	10296.5	10439.4	10641.9	10708.0
15°	10006.8	10229.1	10401.1	10623.4	10693.5
17.5°	9881.1	10139.1	10340.2	10558.5	10631.3
20°	9732.9	10005.5	10234.4	10458.0	10509.6
22.5°	9554.3	9828.2	10088.8	10289.9	10317.7
25°	9346.5	9615.1	9883.7	10035.9	10043.8
27.5°	9120.3	9370.4	9621.8	9703.8	9668.1
30°	8864.9	9088.5	9287.0	9304.2	9238.0
32.5°	8561.9	8763.0	8904.6	8867.6	8756.4
35°	8207.3	8367.4	8466.7	8327.7	8158.4
37.5°	7818.3	7938.7	7971.8	7670.1	7477.0
40°	7375.1	7478.3	7396.3	6976.8	6820.7
42.5°	6864.4	6983.4	6773.1	6358.9	6263.7
45°	6336.4	6474.0	6155.2	5837.6	5755.6
47.5°	5819.1	5944.8	5583.6	5328.2	5206.5
50°	5324.2	5378.5	5059.6	4771.2	4636.2
52.5°	4837.3	4783.1	4556.8	4198.3	4079.2
55°	4349.1	4187.7	4001.1	3647.9	3569.8
57.5°	3859.5	3634.6	3430.9	3159.6	3129.2
60°	3380.6	3104.0	2895.0	2733.6	2748.1
62.5°	2924.1	2642.3	2418.7	2367.1	2422.6
65°	2506.0	2241.4	2013.8	2076.0	2134.2
67.5°	2158.0	1904.0	1672.4	1831.2	1877.5
70°	1831.2	1626.1	1403.8	1608.9	1644.6
72.5°	1570.5	1395.9	1202.7	1402.5	1432.9
75°	1324.4	1186.8	1041.3	1192.1	1241.1
77.5°	1110.1	996.3	897.1	985.7	1038.7
80°	895.8	799.2	739.6	779.3	812.4
82.5°	656.3	594.1	550.4	567.6	572.9
85°	398.3	375.8	340.0	358.6	355.9
87.5°	131.0	149.5	157.5	141.6	133.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)