

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-CLI-UNV-L740-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-LD5-30SE-N-CLI-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

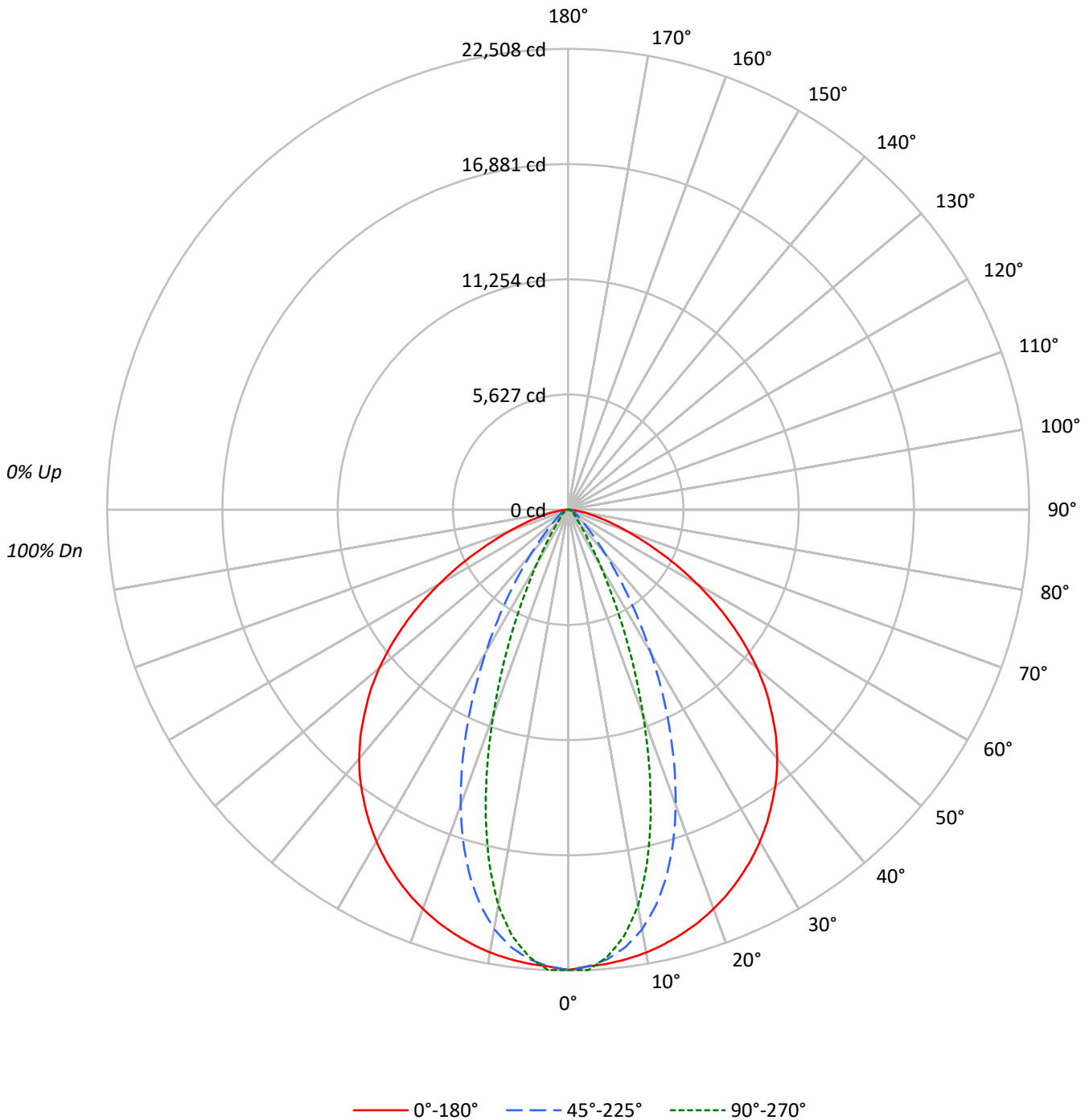
Lumens per Lamp: N/A
Luminaire Lumens: 24607.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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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°	30242	30242	30242
5°	30060	29761	29605
10°	30010	28414	26812
15°	29889	25828	21654
20°	29710	21977	15347
25°	29444	17329	9273
30°	29086	12507	4766
35°	28561	8177	2380
40°	27884	4911	1389
45°	26726	2933	1039
50°	25207	1918	872
55°	22814	1455	761
60°	19605	1239	695
65°	15770	1131	656
70°	11881	1211	652
75°	8739	1151	671
80°	6393	1147	734
85°	4789	1389	951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2070.0	8.4
10°-20°	5149.7	20.9
20°-30°	5704.0	23.2
30°-40°	4569.9	18.6
40°-50°	3262.3	13.3
50°-60°	2095.5	8.5
60°-70°	1135.6	4.6
70°-80°	485.4	2.0
80°-90°	134.6	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°	12923.7	52.5
0°-40°	17493.6	71.1
0°-60°	22851.4	92.9
0°-90°	24607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22477	22477	22477	22477	22477	
5°	22256	22339	22035	21965	21919	###
15°	21457	20786	18542	16386	15545	6054
25°	19833	17488	11673	7605	6246	9137
35°	17388	12577	4978	2008	1449	10872
45°	14045	7261	1541	656	546	10826
55°	9725	3246	620	381	324	8667
65°	4953	1333	355	245	206	4960
75°	1681	488	221	154	129	1868
85°	310	129	90	75	62	379
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22476.7	22476.7	22476.7	22476.7	22476.7
2.5°	22328.7	22468.4	22318.1	22411.6	22507.5
5°	22256.5	22339.4	22035.1	21965.3	21919.1
7.5°	22131.0	22107.4	21535.5	21165.0	20986.2
10°	21965.3	21773.5	20796.8	19982.3	19624.8
12.5°	21728.5	21333.1	19796.5	18366.4	17760.2
15°	21457.4	20786.2	18541.6	16385.8	15545.2
17.5°	21133.0	20146.9	17041.6	14261.9	13152.7
20°	20749.5	19375.0	15348.7	12005.5	10718.6
22.5°	20320.9	18484.7	13536.2	9756.2	8375.8
25°	19833.2	17487.9	11672.8	7605.1	6246.0
27.5°	19306.3	16381.0	9820.1	5682.5	4443.0
30°	18721.5	15183.0	8050.2	4097.3	3067.4
32.5°	18083.4	13909.1	6405.9	2881.5	2097.8
35°	17388.5	12577.3	4978.1	2007.8	1449.0
37.5°	16677.0	11218.2	3759.9	1419.4	1039.4
40°	15875.5	9863.9	2796.3	1039.4	790.8
42.5°	15014.9	8535.6	2069.4	800.3	640.5
45°	14045.3	7260.6	1541.4	655.9	545.8
47.5°	13105.3	6072.0	1170.8	558.8	474.7
50°	12042.2	4999.4	916.3	487.7	416.7
52.5°	10914.0	4055.9	743.5	429.7	367.0
55°	9725.4	3246.1	620.3	381.2	324.4
57.5°	8521.4	2571.3	530.4	339.8	288.9
60°	7285.5	2056.4	460.5	304.3	258.1
62.5°	6079.1	1644.4	402.5	273.5	230.9
65°	4953.3	1333.0	355.2	245.1	206.0
67.5°	3912.6	1053.6	331.5	220.2	185.9
70°	3020.0	820.4	307.8	196.5	165.7
72.5°	2288.4	629.8	272.3	175.2	146.8
75°	1681.1	487.7	221.4	153.9	129.0
77.5°	1202.8	375.3	179.9	133.8	111.3
80°	825.1	279.4	148.0	114.8	94.7
82.5°	536.3	197.7	119.6	94.7	78.1
85°	310.2	129.0	90.0	74.6	61.6
87.5°	133.8	71.0	61.6	55.6	47.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)