

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-LD5-24SE-N-CL-UNV-L850-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-LD5-24SE-N-CL-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

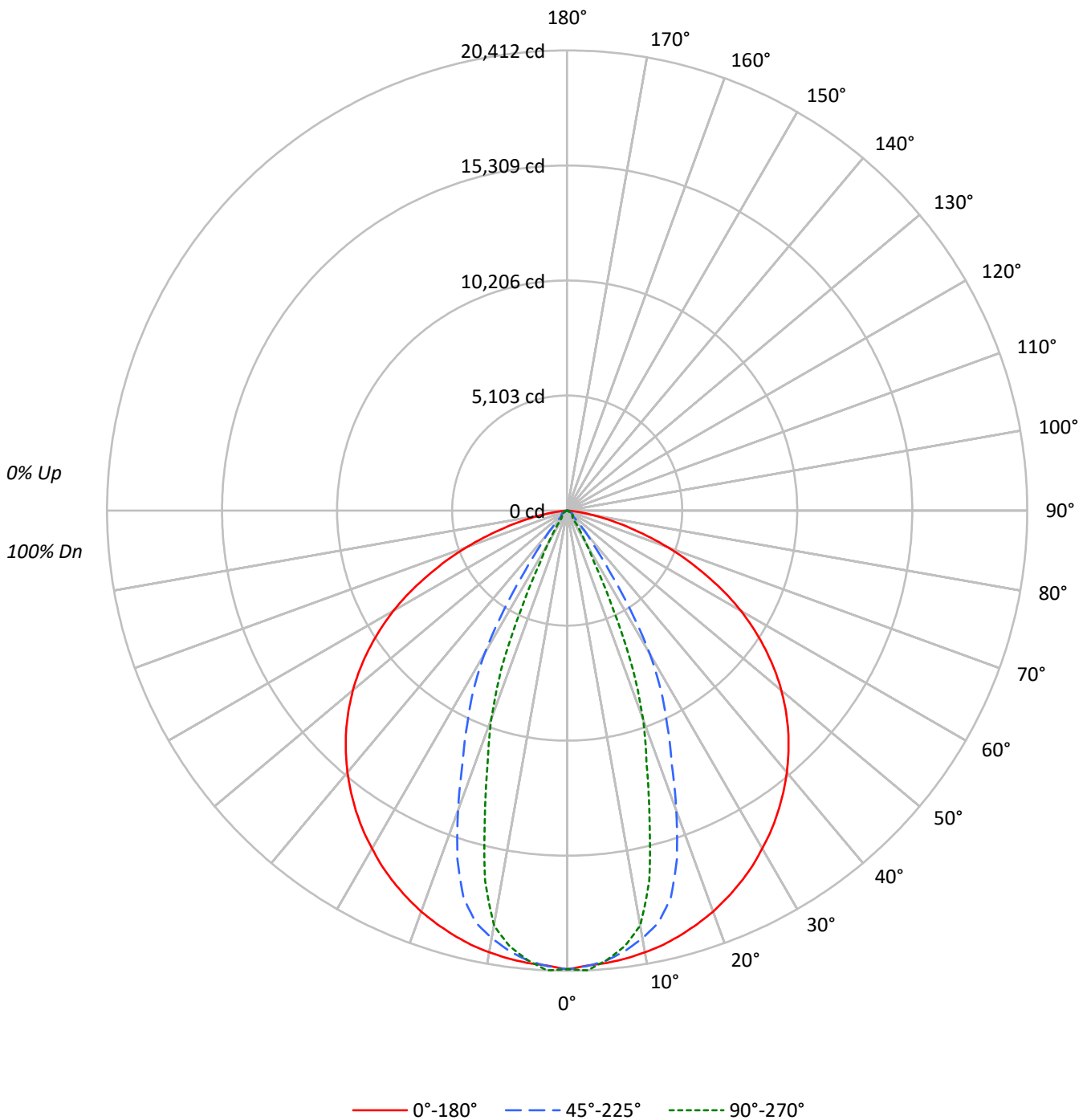
Lumens per Lamp: N/A
Luminaire Lumens: 21758.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 154
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				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83					81				
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75					73				
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68					66				
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62					60				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57					55				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53					51				
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49					47				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46					44				
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43					41				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27373	27373	27373
5°	27205	27063	27043
10°	27187	26315	25538
15°	27155	24745	19636
20°	27103	20250	14085
25°	27017	15602	7157
30°	26890	11387	2604
35°	26794	5229	906
40°	26629	2373	625
45°	26392	886	634
50°	25971	643	667
55°	25202	677	508
60°	23950	723	448
65°	21719	550	365
70°	18622	397	336
75°	14234	352	319
80°	8905	331	347
85°	2813	386	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1894.0	8.7
10°-20°	4771.3	21.9
20°-30°	5196.1	23.9
30°-40°	3887.0	17.9
40°-50°	2794.8	12.8
50°-60°	1716.4	7.9
60°-70°	987.7	4.5
70°-80°	440.8	2.0
80°-90°	69.9	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°	11861.4	54.5
0°-40°	15748.3	72.4
0°-60°	20259.6	93.1
0°-90°	21758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20344	20344	20344	20344	20344	
5°	20142	20237	20037	20056	20023	###
15°	19495	19121	17765	15257	14097	5503
25°	18199	16893	10510	6743	4821	8389
35°	16312	11699	3184	936	552	10204
45°	13870	6573	465	345	333	10685
55°	10744	1366	288	279	216	9579
65°	6822	150	173	144	114	6753
75°	2738	91	68	70	61	2971
85°	182	18	25	32	30	363
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20344.3	20344.3	20344.3	20344.3	20344.3
2.5°	20202.7	20334.9	20223.5	20323.5	20412.0
5°	20142.3	20237.1	20037.2	20055.9	20022.6
7.5°	20038.2	20061.1	19699.9	19560.4	19492.7
10°	19898.7	19837.3	19260.6	18928.5	18692.2
12.5°	19722.8	19519.8	18714.0	17528.3	16821.4
15°	19494.8	19121.1	17764.6	15256.7	14096.9
17.5°	19223.1	18704.6	16192.6	12715.5	11711.9
20°	18928.5	18244.5	14142.7	10811.4	9836.9
22.5°	18580.8	17656.3	12121.0	8991.6	7653.8
25°	18198.7	16893.2	10509.5	6742.9	4821.1
27.5°	17786.4	15886.5	9017.6	4135.1	2606.8
30°	17307.5	14661.2	7329.0	2320.5	1676.1
32.5°	16840.1	13232.9	5235.5	1546.0	1071.2
35°	16312.3	11699.4	3183.5	935.9	551.8
37.5°	15753.3	10305.4	1992.6	509.1	381.0
40°	15160.9	8983.3	1351.3	361.2	356.0
42.5°	14527.9	7787.1	846.4	343.5	355.0
45°	13870.0	6573.2	465.4	344.6	333.1
47.5°	13155.8	5255.2	324.8	325.9	324.8
50°	12407.3	3769.7	307.1	321.7	318.6
52.5°	11600.5	2340.3	308.2	314.4	282.1
55°	10743.7	1365.9	288.4	279.0	216.5
57.5°	9843.2	851.6	282.1	230.1	194.7
60°	8900.0	449.7	268.6	207.2	166.6
62.5°	7895.4	221.7	215.5	177.0	136.4
65°	6822.0	149.9	172.8	143.7	114.5
67.5°	5785.1	135.3	130.1	117.6	99.9
70°	4733.7	123.9	101.0	103.1	85.4
72.5°	3702.0	112.4	81.2	88.5	71.8
75°	2738.0	90.6	67.7	69.8	61.4
77.5°	1905.1	70.8	53.1	59.3	57.3
80°	1149.3	44.8	42.7	48.9	44.8
82.5°	557.0	29.1	33.3	38.5	35.4
85°	182.2	17.7	25.0	32.3	30.2
87.5°	22.9	10.4	20.8	28.1	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)