

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-CLI-UNV-L750-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-LD5-24SE-N-CLI-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

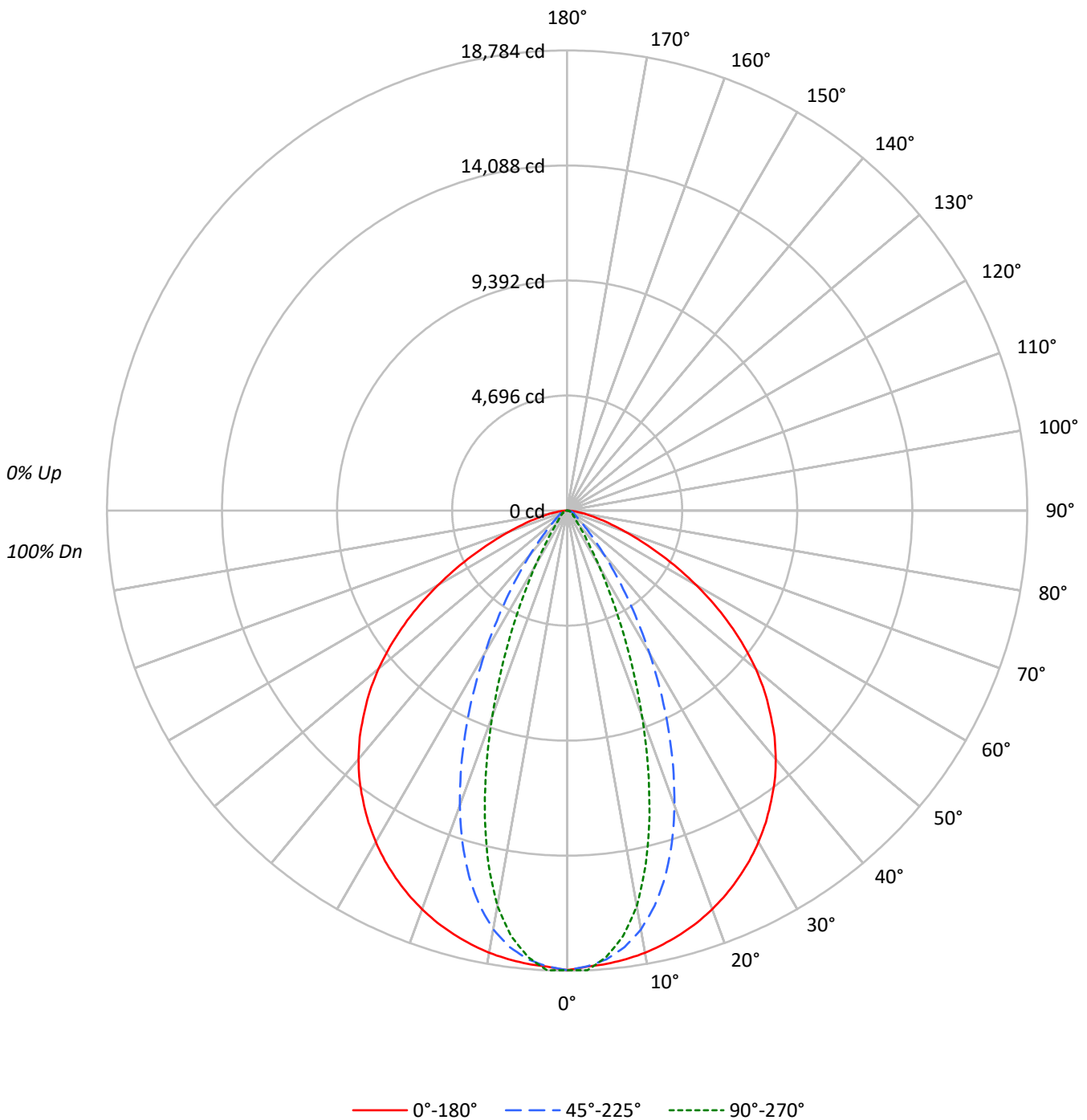
Lumens per Lamp: N/A
Luminaire Lumens: 20536.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	25239	25239	25239
5°	25087	24838	24707
10°	25045	23713	22377
15°	24944	21555	18071
20°	24795	18341	12808
25°	24573	14462	7739
30°	24274	10438	3977
35°	23836	6824	1986
40°	23271	4099	1159
45°	22304	2448	867
50°	21037	1601	728
55°	19039	1214	635
60°	16361	1034	580
65°	13161	944	547
70°	9915	1011	544
75°	7294	961	560
80°	5336	957	612
85°	3997	1159	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1727.5	8.4
10°-20°	4297.7	20.9
20°-30°	4760.4	23.2
30°-40°	3813.9	18.6
40°-50°	2722.6	13.3
50°-60°	1748.8	8.5
60°-70°	947.7	4.6
70°-80°	405.1	2.0
80°-90°	112.3	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°	10785.6	52.5
0°-40°	14599.5	71.1
0°-60°	19070.9	92.9
0°-90°	20536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18758	18758	18758	18758	18758	
5°	18574	18644	18390	18331	18293	###
15°	17908	17347	15474	13675	12973	5053
25°	16552	14595	9742	6347	5213	7625
35°	14512	10496	4154	1676	1209	9073
45°	11722	6059	1286	547	456	9035
55°	8116	2709	518	318	271	7233
65°	4134	1112	296	204	172	4140
75°	1403	407	185	128	108	1559
85°	259	108	75	62	51	316
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18758.2	18758.2	18758.2	18758.2	18758.2
2.5°	18634.7	18751.2	18625.8	18703.8	18783.8
5°	18574.4	18643.5	18389.6	18331.3	18292.8
7.5°	18469.7	18449.9	17972.7	17663.4	17514.3
10°	18331.3	18171.3	17356.2	16676.4	16378.1
12.5°	18133.7	17803.7	16521.3	15327.8	14822.0
15°	17907.5	17347.3	15474.0	13674.9	12973.4
17.5°	17636.8	16813.8	14222.2	11902.4	10976.7
20°	17316.7	16169.6	12809.4	10019.3	8945.3
22.5°	16959.0	15426.6	11296.8	8142.1	6990.1
25°	16551.9	14594.7	9741.7	6346.9	5212.7
27.5°	16112.3	13670.9	8195.5	4742.4	3708.0
30°	15624.2	12671.1	6718.4	3419.5	2559.9
32.5°	15091.7	11608.0	5346.1	2404.8	1750.7
35°	14511.7	10496.5	4154.5	1675.6	1209.3
37.5°	13917.9	9362.3	3137.9	1184.6	867.5
40°	13249.1	8232.0	2333.7	867.5	660.0
42.5°	12530.8	7123.5	1727.0	667.9	534.5
45°	11721.6	6059.4	1286.4	547.4	455.5
47.5°	10937.2	5067.4	977.1	466.3	396.2
50°	10049.9	4172.3	764.7	407.1	347.8
52.5°	9108.4	3384.9	620.5	358.6	306.3
55°	8116.4	2709.1	517.7	318.1	270.7
57.5°	7111.6	2145.9	442.6	283.6	241.1
60°	6080.1	1716.2	384.3	253.9	215.4
62.5°	5073.4	1372.3	335.9	228.2	192.7
65°	4133.8	1112.5	296.4	204.5	171.9
67.5°	3265.3	879.3	276.6	183.8	155.1
70°	2520.4	684.7	256.9	164.0	138.3
72.5°	1909.8	525.6	227.2	146.2	122.5
75°	1403.0	407.1	184.8	128.4	107.7
77.5°	1003.8	313.2	150.2	111.6	92.9
80°	688.6	233.2	123.5	95.8	79.0
82.5°	447.6	165.0	99.8	79.0	65.2
85°	258.9	107.7	75.1	62.2	51.4
87.5°	111.6	59.3	51.4	46.4	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)