

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-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 (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-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

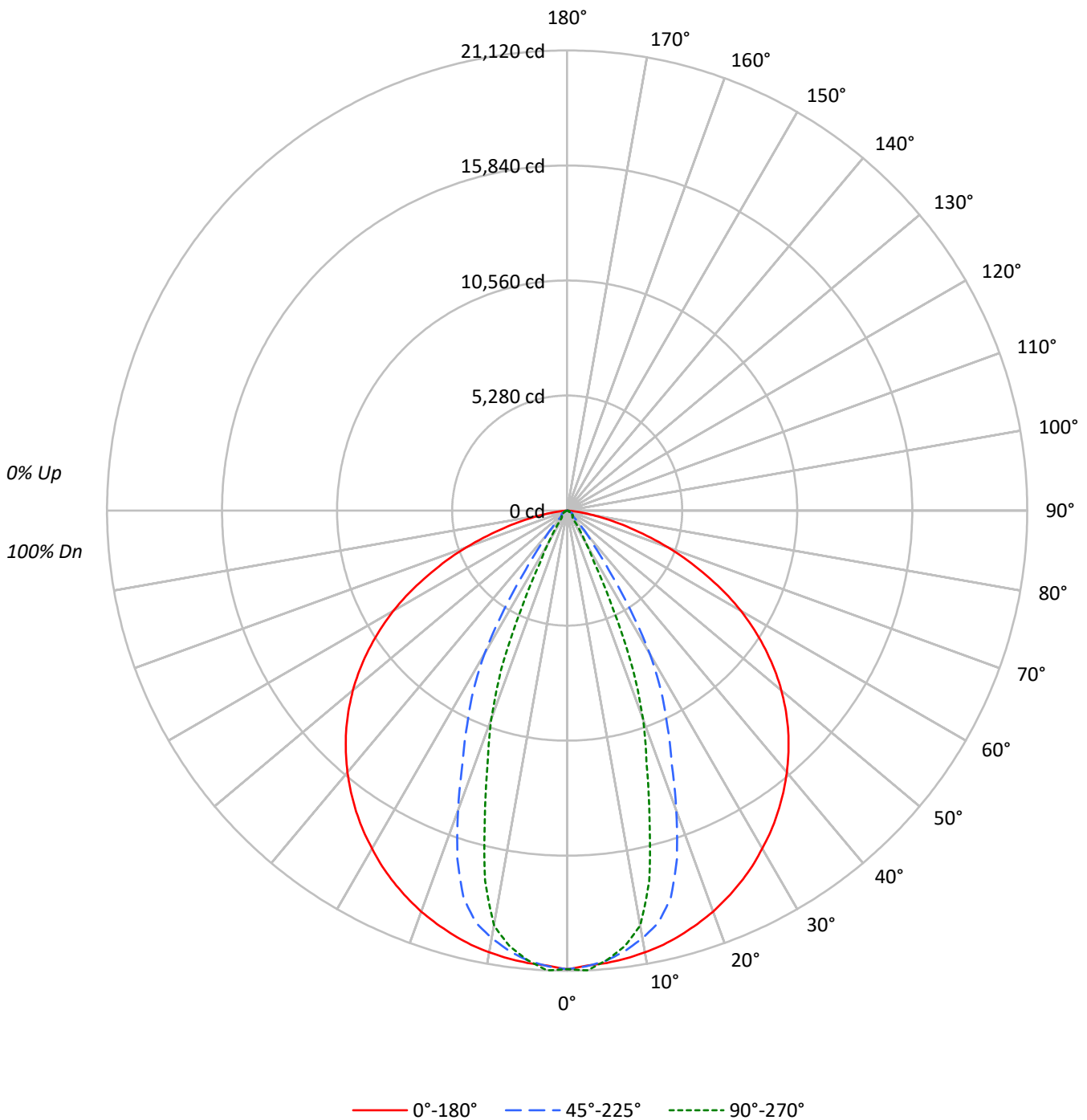
Lumens per Lamp: N/A
Luminaire Lumens: 22513.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	28323	28323	28323
5°	28149	28002	27982
10°	28130	27228	26424
15°	28098	25604	20318
20°	28043	20953	14574
25°	27955	16144	7406
30°	27823	11782	2694
35°	27723	5411	938
40°	27553	2456	647
45°	27308	916	656
50°	26872	665	690
55°	26077	700	526
60°	24781	748	464
65°	22473	569	377
70°	19268	411	347
75°	14728	364	331
80°	9214	342	359
85°	2910	400	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1959.8	8.7
10°-20°	4936.8	21.9
20°-30°	5376.4	23.9
30°-40°	4021.8	17.9
40°-50°	2891.8	12.8
50°-60°	1776.0	7.9
60°-70°	1021.9	4.5
70°-80°	456.1	2.0
80°-90°	72.4	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°	12273.0	54.5
0°-40°	16294.8	72.4
0°-60°	20962.6	93.1
0°-90°	22513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21050	21050	21050	21050	21050	
5°	20841	20939	20732	20752	20717	###
15°	20171	19785	18381	15786	14586	5694
25°	18830	17479	10874	6977	4988	8680
35°	16878	12105	3294	968	571	10558
45°	14351	6801	482	356	345	11056
55°	11116	1413	298	289	224	9911
65°	7059	155	179	149	118	6987
75°	2833	94	70	72	64	3074
85°	188	18	26	33	31	376
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21050.3	21050.3	21050.3	21050.3	21050.3
2.5°	20903.8	21040.6	20925.3	21028.7	21120.3
5°	20841.3	20939.3	20732.5	20751.9	20717.4
7.5°	20733.6	20757.3	20383.5	20239.1	20169.1
10°	20589.2	20525.7	19928.9	19585.3	19340.8
12.5°	20407.2	20197.1	19363.4	18136.5	17405.1
15°	20171.3	19784.6	18381.0	15786.1	14586.1
17.5°	19890.1	19353.7	16754.5	13156.7	12118.3
20°	19585.3	18877.6	14633.5	11186.5	10178.3
22.5°	19225.5	18269.0	12541.6	9303.6	7919.4
25°	18830.2	17479.4	10874.1	6976.9	4988.4
27.5°	18403.6	16437.8	9330.5	4278.6	2697.3
30°	17908.1	15169.9	7583.3	2401.0	1734.3
32.5°	17424.5	13692.0	5417.1	1599.6	1108.4
35°	16878.3	12105.3	3294.0	968.4	570.9
37.5°	16299.9	10663.0	2061.7	526.7	394.2
40°	15687.0	9295.0	1398.2	373.8	368.4
42.5°	15032.0	8057.3	875.7	355.5	367.3
45°	14351.3	6801.3	481.5	356.5	344.7
47.5°	13612.3	5437.6	336.1	337.2	336.1
50°	12837.8	3900.5	317.8	332.8	329.6
52.5°	12003.0	2421.5	318.8	325.3	291.9
55°	11116.5	1413.3	298.4	288.7	224.1
57.5°	10184.7	881.1	291.9	238.1	201.4
60°	9208.8	465.3	277.9	214.4	172.3
62.5°	8169.3	229.4	223.0	183.1	141.1
65°	7058.8	155.1	178.8	148.7	118.5
67.5°	5985.9	140.0	134.6	121.7	103.4
70°	4897.9	128.2	104.5	106.6	88.3
72.5°	3830.5	116.3	84.0	91.6	74.3
75°	2833.0	93.7	70.0	72.2	63.6
77.5°	1971.2	73.2	54.9	61.4	59.2
80°	1189.2	46.3	44.2	50.6	46.3
82.5°	576.3	30.2	34.5	39.9	36.6
85°	188.5	18.3	25.9	33.4	31.2
87.5°	23.7	10.8	21.5	29.1	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)