

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-W-WG-UNV-L740-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-WG-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

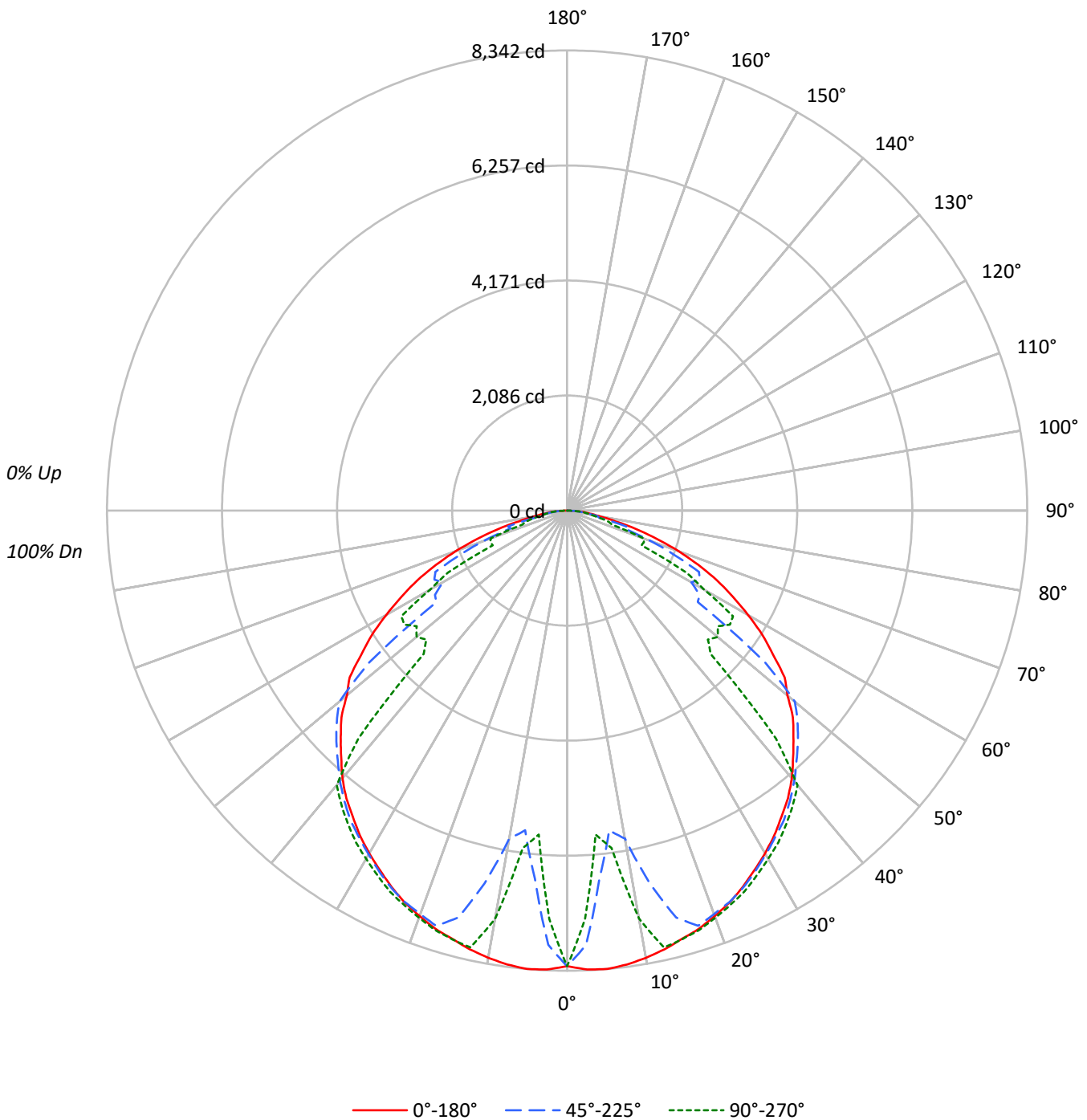
Lumens per Lamp: N/A
Luminaire Lumens: 21880.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11112	11112	11112
5°	11267	9051	7960
10°	11247	8255	10267
15°	11198	10639	11207
20°	11198	11147	11246
25°	11178	11203	11305
30°	11145	11182	11326
35°	11128	11251	11382
40°	11129	11250	11412
45°	11042	11258	6996
50°	10917	11281	7456
55°	10686	6783	8451
60°	10194	6992	7739
65°	9552	8395	4735
70°	8434	6360	5804
75°	6720	5781	4025
80°	4630	4178	3459
85°	4437	3858	3659



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.4	3.0
10°-20°	2069.0	9.5
20°-30°	3404.0	15.6
30°-40°	4280.1	19.6
40°-50°	4197.7	19.2
50°-60°	3478.0	15.9
60°-70°	2453.1	11.2
70°-80°	1070.3	4.9
80°-90°	267.4	1.2
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
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0°-30°	6133.5	28.0
0°-40°	10413.6	47.6
0°-60°	18089.2	82.7
0°-90°	21880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8259	8259	8259	8259	8259	
5°	8342	7764	6702	6076	5894	792
15°	8039	5583	7638	8070	8046	2273
25°	7529	6889	7546	7596	7615	3470
35°	6775	6771	6850	6895	6930	4245
45°	5803	5821	5916	5240	3677	4479
55°	4556	4705	2892	3288	3603	4076
65°	3000	3177	2637	2028	1487	2950
75°	1293	1267	1112	727	774	1386
85°	287	256	250	239	237	298
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8259.0	8259.0	8259.0	8259.0	8259.0
2.5°	8327.1	8154.3	7879.8	7534.1	7411.7
5°	8341.9	7764.2	6701.6	6076.5	5893.8
7.5°	8299.5	7056.1	5842.4	5973.8	6167.3
10°	8232.3	6434.0	6041.9	7108.5	7514.4
12.5°	8146.4	5880.9	6921.8	8029.9	8110.9
15°	8038.8	5582.7	7637.8	8070.4	8045.7
17.5°	7947.9	5757.5	7894.6	7989.4	7971.6
20°	7820.5	6106.1	7785.0	7861.0	7854.1
22.5°	7692.1	6518.9	7681.3	7735.6	7735.6
25°	7529.2	6889.2	7546.0	7596.3	7615.1
27.5°	7350.4	7102.6	7377.1	7418.6	7452.1
30°	7173.7	7133.2	7197.4	7250.7	7290.2
32.5°	6987.0	6971.2	7021.6	7077.9	7128.2
35°	6774.7	6770.7	6849.7	6895.2	6929.7
37.5°	6575.2	6561.4	6634.4	6697.7	6724.3
40°	6336.2	6336.2	6405.3	6469.5	6497.2
42.5°	6063.6	6102.2	6155.5	6221.6	5603.4
45°	5802.9	5820.7	5916.5	5240.0	3676.7
47.5°	5552.1	5574.8	5665.6	3368.6	3460.4
50°	5215.3	5318.0	5389.1	3358.7	3562.1
52.5°	4969.4	5013.9	4524.0	3325.1	3439.7
55°	4555.6	4704.7	2891.6	3287.6	3602.6
57.5°	4202.1	4310.7	2843.2	3368.6	3564.1
60°	3788.3	3954.2	2598.3	3250.1	2875.8
62.5°	3391.3	3549.3	2712.8	2557.8	2435.3
65°	3000.2	3177.0	2636.8	2028.5	1487.3
67.5°	2571.6	2406.7	2103.5	1429.0	1504.1
70°	2144.0	1680.8	1616.6	1597.9	1475.4
72.5°	1704.5	1226.6	1073.5	1198.9	858.2
75°	1292.7	1267.0	1112.0	726.8	774.2
77.5°	896.7	914.5	595.5	709.1	588.6
80°	597.5	517.5	539.2	452.3	446.4
82.5°	413.8	422.7	354.5	343.7	348.6
85°	287.4	255.8	249.9	239.0	237.0
87.5°	95.8	111.6	103.7	93.8	99.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)