

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-LD5-48SE-N-CLI-UNV-L740-ED4-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-LD5-48SE-N-CLI-UNV-L740-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

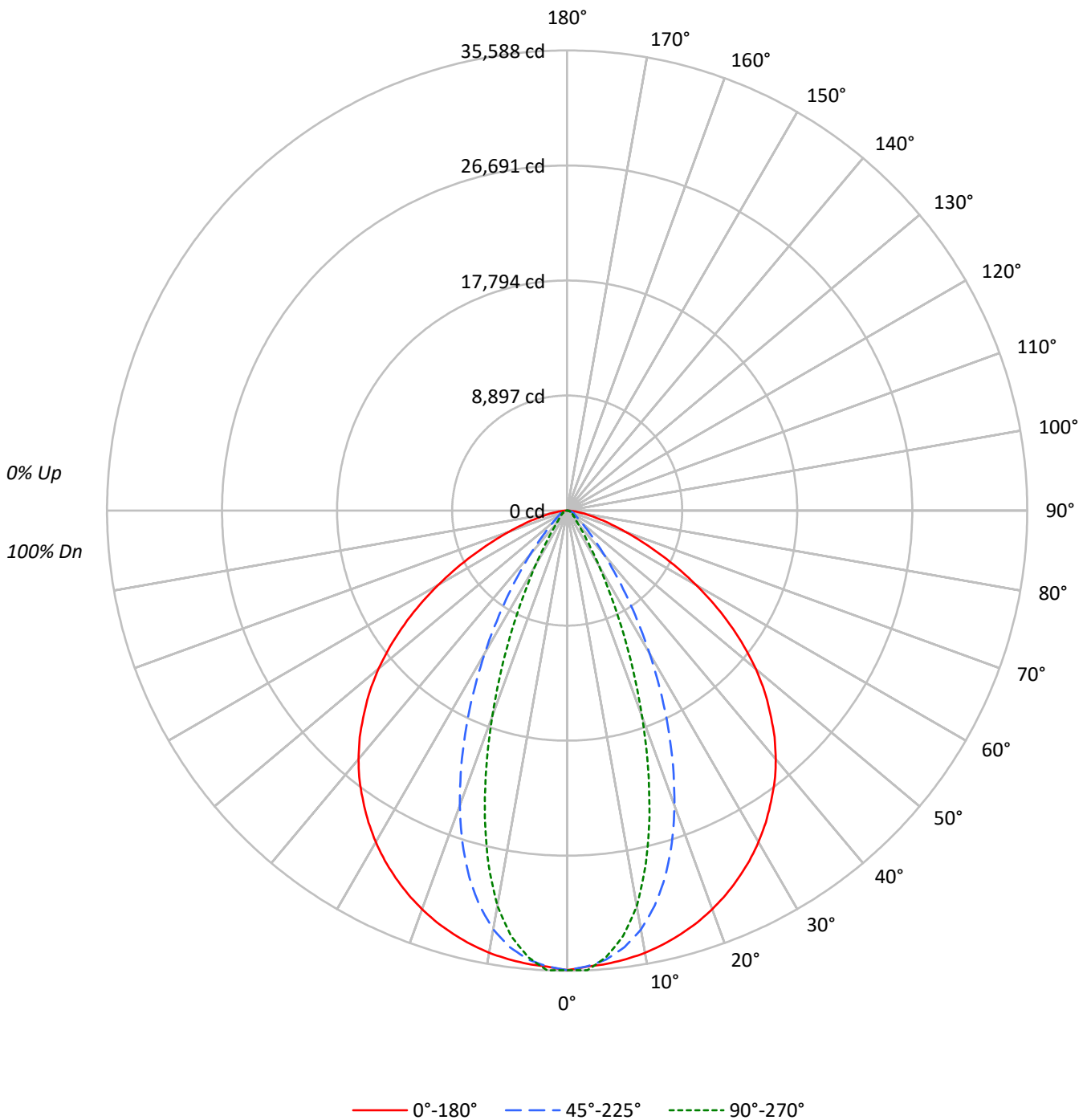
Lumens per Lamp: N/A  
Luminaire Lumens: 38908.0 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 299.1  
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	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°	47818	47818	47818
5°	47531	47058	46810
10°	47451	44927	42395
15°	47260	40838	34238
20°	46977	34749	24267
25°	46556	27401	14662
30°	45991	19776	7535
35°	45160	12929	3763
40°	44089	7766	2196
45°	42258	4638	1642
50°	39856	3033	1379
55°	36073	2301	1203
60°	30999	1960	1098
65°	24935	1788	1037
70°	18785	1915	1031
75°	13818	1820	1061
80°	10109	1813	1161
85°	7571	2197	1502



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3273.0	8.4
10°-20°	8142.5	20.9
20°-30°	9019.1	23.2
30°-40°	7225.9	18.6
40°-50°	5158.3	13.3
50°-60°	3313.3	8.5
60°-70°	1795.6	4.6
70°-80°	767.4	2.0
80°-90°	212.8	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°	20434.6	52.5
0°-40°	27660.5	71.1
0°-60°	36132.1	92.9
0°-90°	38908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	38908.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	35540	35540	35540	35540	35540	
5°	35192	35322	34841	34731	34658	###
15°	33928	32867	29318	25909	24580	9573
25°	31360	27652	18457	12025	9876	14447
35°	27494	19887	7871	3175	2291	17191
45°	22208	11480	2437	1037	863	17118
55°	15378	5133	981	603	513	13704
65°	7832	2108	562	388	326	7843
75°	2658	771	350	243	204	2954
85°	490	204	142	118	97	599
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	35539.6	35539.6	35539.6	35539.6	35539.6
2.5°	35305.7	35526.5	35288.8	35436.7	35588.3
5°	35191.5	35322.5	34841.4	34731.0	34658.0
7.5°	34993.1	34955.6	34051.5	33465.6	33182.9
10°	34731.0	34427.7	32883.4	31595.6	31030.3
12.5°	34356.6	33731.4	31301.7	29040.5	28082.0
15°	33928.0	32866.6	29317.5	25908.8	24579.7
17.5°	33415.1	31855.8	26945.8	22550.6	20796.7
20°	32808.6	30635.3	24269.0	18982.8	16948.1
22.5°	32130.9	29227.6	21403.2	15426.2	13243.6
25°	31359.7	27651.5	18456.8	12025.0	9876.1
27.5°	30526.7	25901.3	15527.3	8985.1	7025.2
30°	29602.0	24007.0	12728.8	6478.6	4850.1
32.5°	28593.1	21992.8	10128.8	4556.2	3317.0
35°	27494.3	19886.9	7871.3	3174.7	2291.2
37.5°	26369.3	17738.0	5945.1	2244.4	1643.5
40°	25102.0	15596.6	4421.4	1643.5	1250.4
42.5°	23741.1	13496.3	3272.1	1265.4	1012.7
45°	22208.1	11480.3	2437.2	1037.0	862.9
47.5°	20721.8	9600.9	1851.3	883.5	750.6
50°	19040.8	7905.0	1448.8	771.2	658.9
52.5°	17256.9	6413.1	1175.5	679.5	580.3
55°	15377.6	5132.7	980.9	602.7	512.9
57.5°	13473.8	4065.7	838.6	537.2	456.7
60°	11519.6	3251.5	728.2	481.1	408.1
62.5°	9612.1	2600.1	636.4	432.4	365.0
65°	7832.0	2107.7	561.6	387.5	325.7
67.5°	6186.6	1666.0	524.1	348.2	293.9
70°	4775.2	1297.2	486.7	310.7	262.1
72.5°	3618.4	995.8	430.5	277.0	232.1
75°	2658.1	771.2	350.0	243.3	204.0
77.5°	1901.8	593.4	284.5	211.5	176.0
80°	1304.7	441.8	234.0	181.6	149.8
82.5°	848.0	312.6	189.1	149.8	123.5
85°	490.4	204.0	142.3	117.9	97.3
87.5°	211.5	112.3	97.3	88.0	74.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)