

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

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

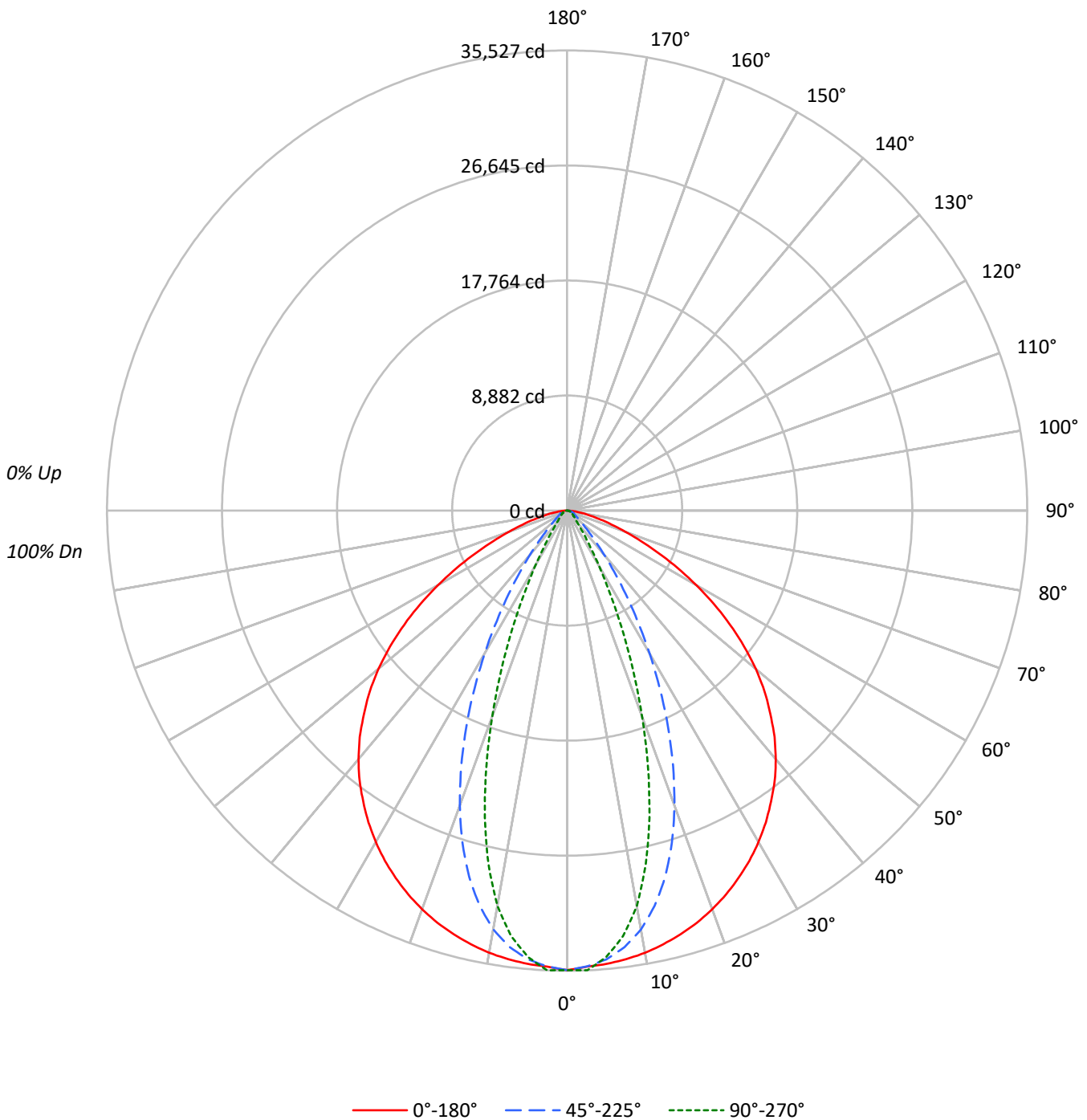
Lumens per Lamp: N/A  
Luminaire Lumens: 38841.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 286.2  
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°	47736	47736	47736
5°	47449	46977	46729
10°	47369	44849	42322
15°	47179	40768	34179
20°	46896	34689	24225
25°	46476	27353	14637
30°	45912	19742	7522
35°	45083	12907	3757
40°	44014	7752	2193
45°	42185	4630	1639
50°	39788	3027	1377
55°	36010	2297	1201
60°	30946	1956	1096
65°	24892	1785	1035
70°	18753	1912	1029
75°	13794	1816	1059
80°	10092	1810	1158
85°	7558	2192	1501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3267.4	8.4
10°-20°	8128.5	20.9
20°-30°	9003.5	23.2
30°-40°	7213.4	18.6
40°-50°	5149.5	13.3
50°-60°	3307.6	8.5
60°-70°	1792.5	4.6
70°-80°	766.1	2.0
80°-90°	212.5	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°	20399.4	52.5
0°-40°	27612.9	71.1
0°-60°	36069.9	92.9
0°-90°	38841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	38841.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	35478	35478	35478	35478	35478	
5°	35131	35262	34781	34671	34598	###
15°	33870	32810	29267	25864	24537	9556
25°	31306	27604	18425	12004	9859	14422
35°	27447	19853	7858	3169	2287	17161
45°	22170	11460	2433	1035	862	17088
55°	15351	5124	979	602	512	13681
65°	7818	2104	561	387	325	7829
75°	2654	770	349	243	204	2948
85°	490	204	142	118	97	598
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	35478.4	35478.4	35478.4	35478.4	35478.4
2.5°	35244.9	35465.4	35228.0	35375.7	35527.0
5°	35130.9	35261.7	34781.4	34671.2	34598.3
7.5°	34932.8	34895.4	33992.9	33408.0	33125.8
10°	34671.2	34368.5	32826.8	31541.2	30976.8
12.5°	34297.5	33673.3	31247.8	28990.4	28033.7
15°	33869.5	32810.0	29267.0	25864.2	24537.4
17.5°	33357.5	31800.9	26899.4	22511.8	20760.9
20°	32752.1	30582.5	24227.2	18950.1	16918.9
22.5°	32075.6	29177.3	21366.3	15399.7	13220.8
25°	31305.7	27603.9	18425.0	12004.3	9859.1
27.5°	30474.2	25856.7	15500.6	8969.6	7013.1
30°	29551.0	23965.6	12706.9	6467.4	4841.7
32.5°	28543.8	21954.9	10111.3	4548.3	3311.3
35°	27446.9	19852.7	7857.7	3169.3	2287.2
37.5°	26323.9	17707.5	5934.9	2240.5	1640.7
40°	25058.8	15569.7	4413.8	1640.7	1248.3
42.5°	23700.3	13473.1	3266.4	1263.2	1010.9
45°	22169.8	11460.5	2433.0	1035.2	861.5
47.5°	20686.1	9584.4	1848.1	882.0	749.3
50°	19008.0	7891.4	1446.3	769.9	657.8
52.5°	17227.2	6402.0	1173.5	678.3	579.3
55°	15351.1	5123.9	979.2	601.7	512.0
57.5°	13450.6	4058.7	837.2	536.3	456.0
60°	11499.8	3245.9	726.9	480.2	407.4
62.5°	9595.6	2595.6	635.3	431.7	364.4
65°	7818.5	2104.1	560.6	386.8	325.1
67.5°	6175.9	1663.1	523.2	347.6	293.4
70°	4767.0	1295.0	485.9	310.2	261.6
72.5°	3612.1	994.1	429.8	276.6	231.7
75°	2653.5	769.9	349.4	242.9	203.7
77.5°	1898.6	592.4	284.0	211.2	175.7
80°	1302.5	441.0	233.6	181.3	149.5
82.5°	846.5	312.1	188.7	149.5	123.3
85°	489.6	203.7	142.0	117.7	97.2
87.5°	211.2	112.1	97.2	87.8	74.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)