

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-LD5-18SE-W-CLI-UNV-L735-ED1-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 (P23766)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18SE-W-CLI-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

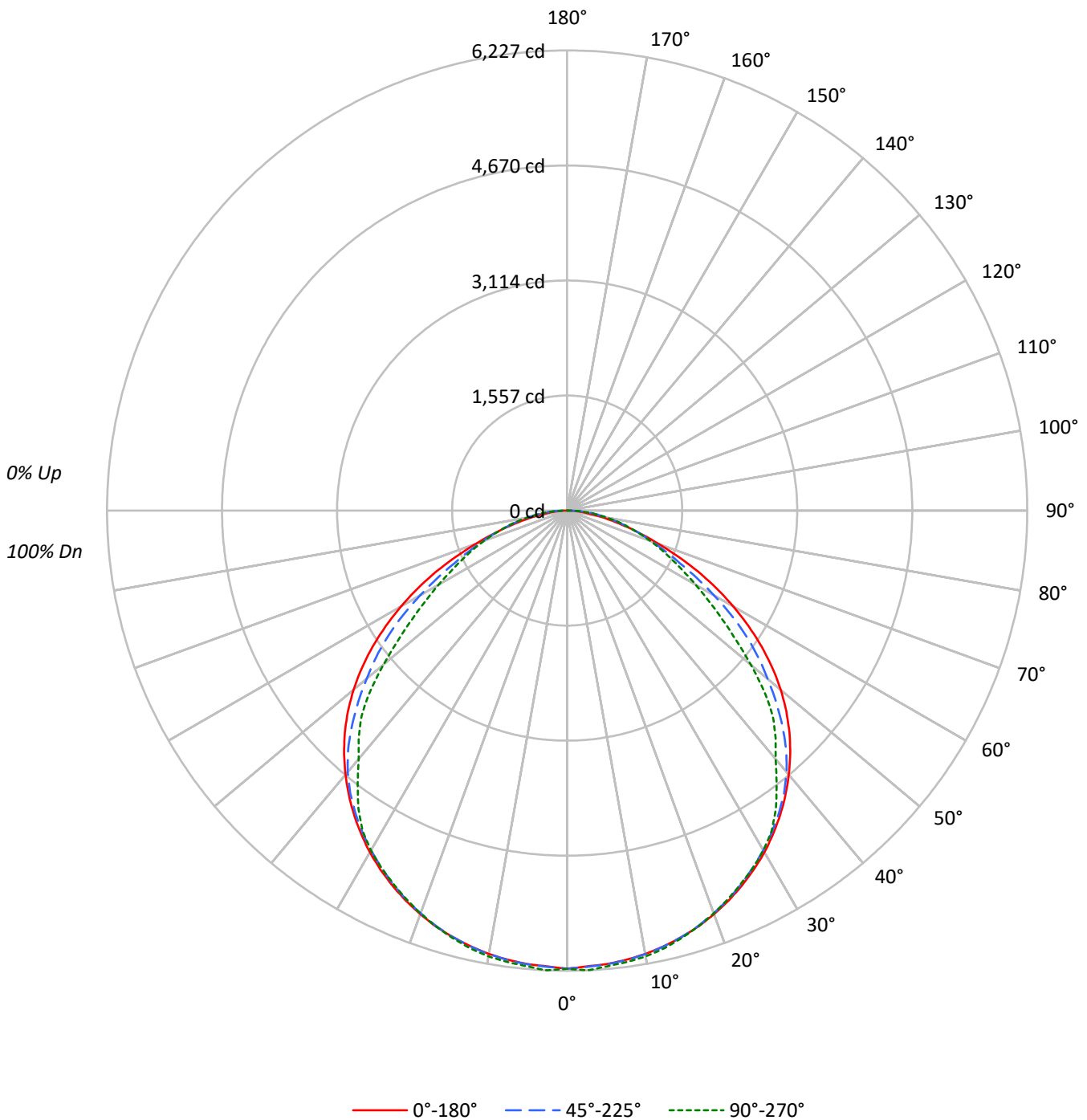
Lumens per Lamp: N/A  
Luminaire Lumens: 16655.0 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 121.76  
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8341	8341	8341
5°	8318	8324	8362
10°	8323	8327	8371
15°	8324	8323	8343
20°	8322	8303	8305
25°	8309	8278	8268
30°	8296	8246	8251
35°	8257	8206	8090
40°	8198	8114	7705
45°	8094	7835	7492
50°	7899	7418	6786
55°	7540	6937	6000
60°	6997	6190	5411
65°	6219	5359	4975
70°	5161	4790	4690
75°	4174	4383	4438
80°	3316	4192	4175
85°	2597	4503	4296



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	587.9	3.5
10°-20°	1691.0	10.2
20°-30°	2578.5	15.5
30°-40°	3119.6	18.7
40°-50°	3159.9	19.0
50°-60°	2611.7	15.7
60°-70°	1725.0	10.4
70°-80°	899.5	5.4
80°-90°	282.0	1.7
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°	4857.4	29.2
0°-40°	7977.0	47.9
0°-60°	13748.5	82.5
0°-90°	16655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16655.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6199	6199	6199	6199	6199	
5°	6159	6196	6163	6190	6191	586
15°	5976	6006	5975	5994	5989	1687
25°	5597	5619	5576	5590	5570	2581
35°	5027	5034	4996	4989	4925	3144
45°	4254	4243	4118	3990	3938	3275
55°	3214	3166	2957	2670	2558	2865
65°	1954	1897	1683	1574	1563	1929
75°	803	817	843	854	854	875
85°	168	217	292	290	278	204
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6199.1	6199.1	6199.1	6199.1	6199.1
2.5°	6173.0	6209.5	6179.0	6205.8	6227.4
5°	6158.9	6196.1	6163.4	6190.2	6190.9
7.5°	6131.4	6168.6	6135.1	6161.9	6161.1
10°	6091.9	6126.9	6094.9	6126.9	6126.9
12.5°	6038.3	6072.6	6041.3	6071.1	6066.6
15°	5975.8	6006.3	5975.1	5993.7	5989.2
17.5°	5902.2	5929.7	5894.7	5910.3	5901.4
20°	5812.1	5837.4	5798.7	5818.8	5800.2
22.5°	5710.9	5734.7	5695.3	5710.2	5689.3
25°	5597.0	5619.4	5576.2	5590.3	5569.5
27.5°	5474.2	5494.3	5446.0	5463.1	5446.7
30°	5339.5	5349.2	5307.5	5329.9	5310.5
32.5°	5189.2	5195.2	5158.7	5178.8	5146.1
35°	5027.0	5033.7	4995.7	4989.0	4925.0
37.5°	4853.6	4856.6	4820.8	4760.6	4654.9
40°	4667.5	4666.1	4619.9	4480.8	4387.0
42.5°	4468.8	4468.1	4387.0	4228.5	4174.9
45°	4253.8	4242.6	4117.6	3989.6	3937.5
47.5°	4023.1	4011.2	3836.3	3734.3	3616.0
50°	3773.8	3752.9	3543.8	3404.7	3241.7
52.5°	3505.1	3473.1	3260.3	3035.5	2881.5
55°	3214.1	3166.5	2957.4	2670.1	2557.8
57.5°	2911.3	2840.6	2637.4	2357.6	2266.1
60°	2600.2	2521.3	2300.3	2070.3	2010.8
62.5°	2280.2	2202.1	1976.6	1803.2	1770.4
65°	1953.5	1896.9	1683.4	1574.0	1562.8
67.5°	1618.6	1598.5	1435.5	1379.7	1375.3
70°	1312.0	1308.3	1217.5	1189.2	1192.2
72.5°	1048.6	1044.1	1030.7	1016.6	1017.3
75°	803.0	817.1	843.2	854.3	853.6
77.5°	599.1	628.1	683.2	705.5	701.8
80°	427.9	471.1	541.0	561.9	538.8
82.5°	285.0	330.4	413.0	416.0	397.4
85°	168.2	216.6	291.7	289.5	278.3
87.5°	83.3	130.2	174.9	167.4	160.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)