

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-LD5-18HE-N-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

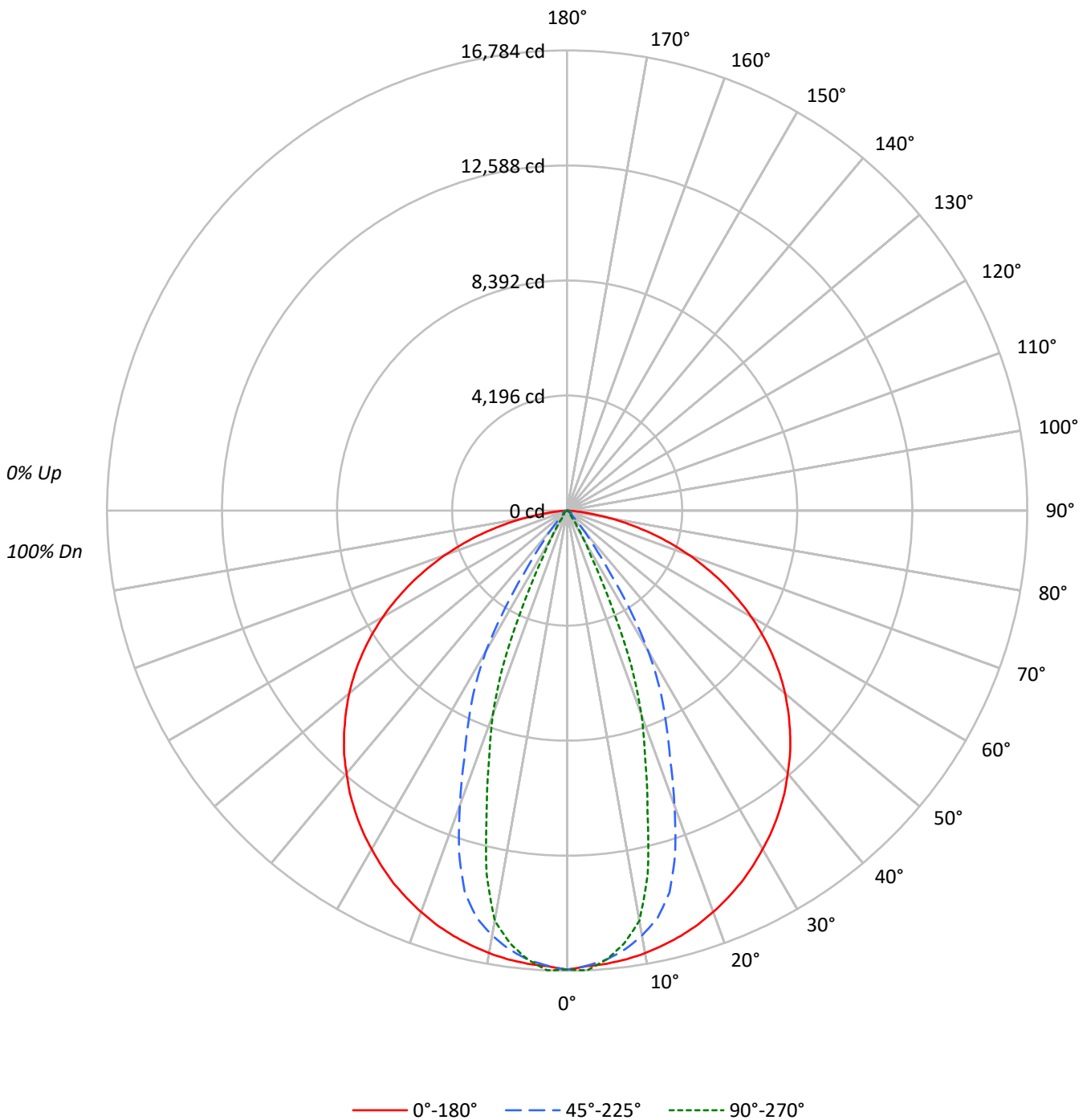
Lumens per Lamp: N/A
Luminaire Lumens: 17796.0 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
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	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22528	22528	22528
5°	22407	22209	22200
10°	22393	21498	20744
15°	22362	20084	15787
20°	22310	16373	11364
25°	22253	12660	5598
30°	22155	9201	1815
35°	22102	4082	467
40°	21986	1658	315
45°	21888	465	335
50°	21717	330	372
55°	21405	392	159
60°	20876	437	96
65°	20018	279	114
70°	18597	247	141
75°	16269	186	194
80°	12164	229	277
85°	6025	295	369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1553.8	8.7
10°-20°	3885.3	21.8
20°-30°	4208.3	23.6
30°-40°	3116.5	17.5
40°-50°	2244.7	12.6
50°-60°	1389.9	7.8
60°-70°	854.8	4.8
70°-80°	450.6	2.5
80°-90°	92.2	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°	9647.4	54.2
0°-40°	12763.9	71.7
0°-60°	16398.4	92.1
0°-90°	17796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16743	16743	16743	16743	16743	
5°	16590	16652	16444	16456	16437	###
15°	16054	15681	14418	12261	11333	4532
25°	14989	13730	8527	5364	3771	6907
35°	13456	9486	2485	585	284	8418
45°	11503	5344	244	177	176	8871
55°	9125	1101	167	151	68	8146
65°	6288	116	88	56	36	6204
75°	3130	27	36	47	37	3305
85°	390	10	19	29	24	590
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16743.3	16743.3	16743.3	16743.3	16743.3
2.5°	16635.8	16741.7	16616.6	16709.8	16783.9
5°	16590.4	16651.7	16443.8	16455.7	16436.6
7.5°	16510.7	16496.4	16146.7	15993.8	15926.9
10°	16390.4	16295.7	15734.9	15415.5	15182.9
12.5°	16235.1	16023.2	15221.2	14205.6	13574.8
15°	16053.5	15680.8	14418.3	12261.4	11333.4
17.5°	15836.9	15308.8	13105.7	10276.5	9448.1
20°	15581.2	14893.8	11434.6	8743.2	7936.4
22.5°	15296.0	14388.8	9811.3	7266.5	6115.5
25°	14989.4	13730.1	8527.4	5364.4	3770.6
27.5°	14634.9	12883.4	7323.0	3159.7	1924.4
30°	14259.8	11863.9	5922.0	1699.7	1168.5
32.5°	13881.5	10708.2	4190.4	1061.7	662.7
35°	13456.1	9486.3	2485.1	584.6	284.4
37.5°	13012.5	8366.5	1468.8	266.0	182.4
40°	12517.8	7343.0	943.9	176.8	179.2
42.5°	12039.9	6388.7	531.3	174.4	177.6
45°	11503.1	5344.5	244.5	176.8	176.0
47.5°	10947.9	4262.1	158.5	178.4	178.4
50°	10375.2	3047.4	157.7	182.4	177.6
52.5°	9770.7	1901.3	164.1	181.6	145.8
55°	9124.7	1100.8	167.3	151.3	67.7
57.5°	8455.7	649.1	168.9	86.8	38.2
60°	7757.9	359.2	162.5	64.5	35.8
62.5°	7038.7	171.2	128.2	60.5	35.0
65°	6287.6	116.3	87.6	55.8	35.8
67.5°	5507.8	90.0	69.3	52.6	36.6
70°	4727.2	66.9	62.9	52.6	35.8
72.5°	3933.9	45.4	52.6	53.4	35.8
75°	3129.5	27.1	35.8	47.0	37.4
77.5°	2332.2	16.7	27.9	48.6	45.4
80°	1569.9	14.3	29.5	45.4	35.8
82.5°	921.6	12.7	28.7	35.0	28.7
85°	390.3	10.4	19.1	28.7	23.9
87.5°	73.3	8.8	15.1	23.1	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)