

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: P730533

Luminaire Tested: **HBLED-LD5-18HE-N-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-UNV-L740
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19228.0 lumens
Efficiency: N/A
Efficacy: 174.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

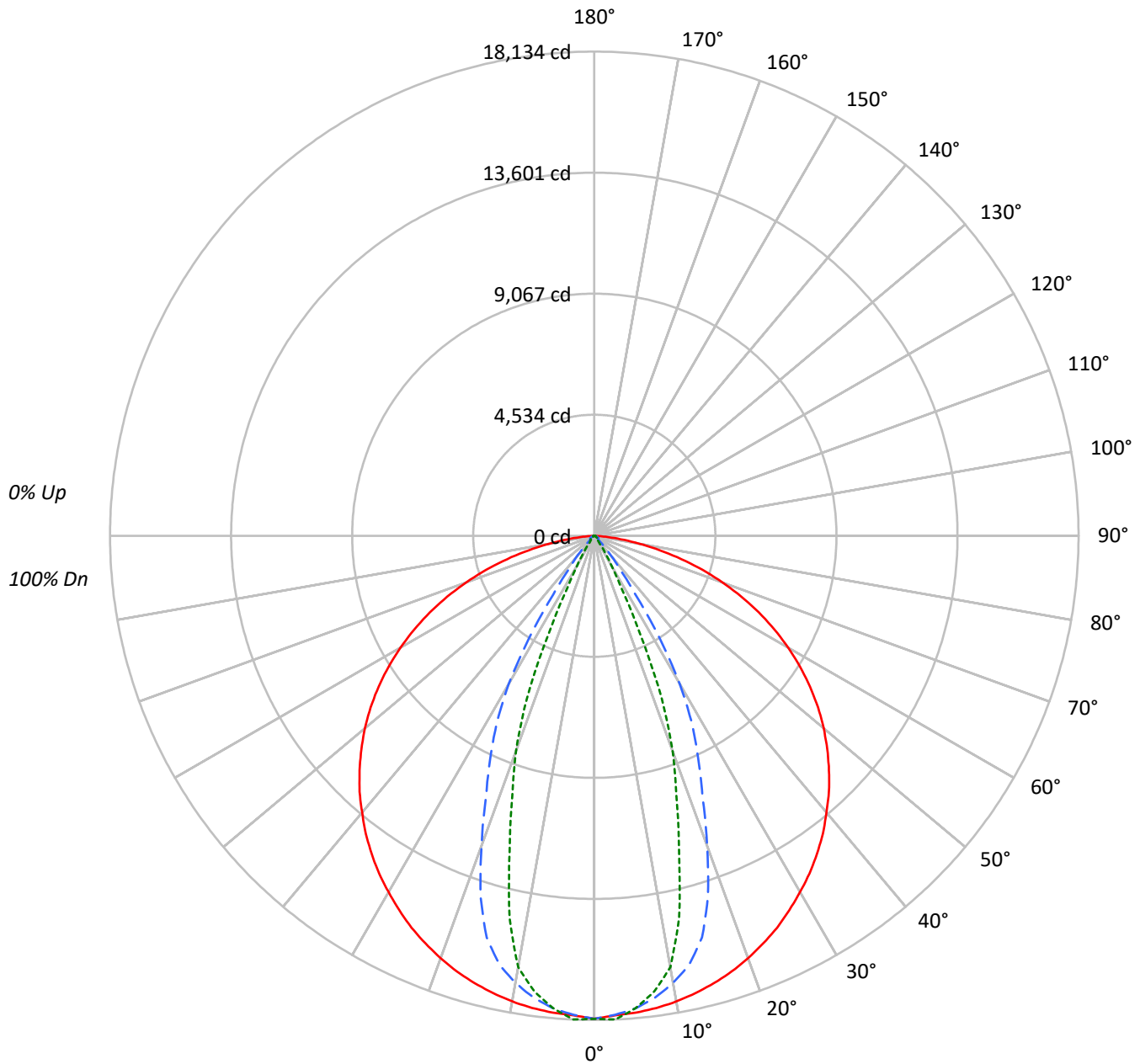
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730533

CATALOG NUMBER: HBLED-LD5-18HE-N-UNV-L740

Luminous Intensity Polar Plot





TEST NUMBER: P730533

CATALOG NUMBER: HBLED-LD5-18HE-N-UNV-L740

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29209	29209	29209
5°	29053	28796	28783
10°	29034	27873	26895
15°	28993	26040	20469
20°	28926	21228	14734
25°	28852	16414	7258
30°	28725	11929	2354
35°	28657	5292	606
40°	28507	2149	408
45°	28379	603	434
50°	28158	428	482
55°	27753	509	206
60°	27068	567	125
65°	25954	361	148
70°	24112	321	183
75°	21093	242	252
80°	15771	296	361
85°	7812	382	478



TEST NUMBER: P730533

CATALOG NUMBER: HBLED-LD5-18HE-N-UNV-L740

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1678.8	8.7
10°-20°	4197.9	21.8
20°-30°	4547.0	23.6
30°-40°	3367.2	17.5
40°-50°	2425.3	12.6
50°-60°	1501.7	7.8
60°-70°	923.5	4.8
70°-80°	486.9	2.5
80°-90°	99.6	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°	10423.7	54.2
0°-40°	13791.0	71.7
0°-60°	17718.0	92.1
0°-90°	19228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18091	18091	18091	18091	18091	
5°	17925	17992	17767	17780	17759	###
15°	17345	16943	15578	13248	12245	4896
25°	16196	14835	9214	5796	4074	7462
35°	14539	10250	2685	632	307	9096
45°	12429	5775	264	191	190	9585
55°	9859	1189	181	164	73	8801
65°	6794	126	95	60	39	6703
75°	3381	29	39	51	40	3571
85°	422	11	21	31	26	637
90°	0	0	0	0	0	



TEST NUMBER: P730533

CATALOG NUMBER: HBLED-LD5-18HE-N-UNV-L740

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18090.6	18090.6	18090.6	18090.6	18090.6
2.5°	17974.4	18088.9	17953.8	18054.5	18134.5
5°	17925.3	17991.6	17767.0	17779.9	17759.3
7.5°	17839.3	17823.8	17446.0	17280.8	17208.5
10°	17709.4	17606.9	17001.1	16656.0	16404.7
12.5°	17541.6	17312.6	16446.0	15348.7	14667.2
15°	17345.3	16942.6	15578.5	13248.1	12245.4
17.5°	17111.2	16540.7	14160.2	11103.4	10208.4
20°	16834.9	16092.3	12354.7	9446.8	8575.0
22.5°	16526.8	15546.7	10600.9	7851.2	6607.6
25°	16195.5	14835.0	9213.5	5796.1	4074.0
27.5°	15812.6	13920.1	7912.3	3414.0	2079.2
30°	15407.3	12818.5	6398.5	1836.5	1262.5
32.5°	14998.5	11569.8	4527.6	1147.2	716.0
35°	14538.9	10249.7	2685.0	631.7	307.3
37.5°	14059.5	9039.7	1586.9	287.5	197.1
40°	13525.1	7933.9	1019.8	191.0	193.6
42.5°	13008.8	6902.9	574.0	188.4	191.9
45°	12428.7	5774.6	264.2	191.0	190.2
47.5°	11828.9	4605.0	171.2	192.8	192.8
50°	11210.2	3292.7	170.4	197.1	191.9
52.5°	10556.9	2054.3	177.3	196.3	157.5
55°	9859.0	1189.3	180.7	163.5	73.2
57.5°	9136.1	701.4	182.5	93.8	41.3
60°	8382.2	388.1	175.5	69.7	38.8
62.5°	7605.1	185.0	138.5	65.4	37.8
65°	6793.5	125.7	94.6	60.2	38.8
67.5°	5951.0	97.2	74.8	56.8	39.6
70°	5107.6	72.3	68.0	56.8	38.8
72.5°	4250.5	49.1	56.8	57.6	38.8
75°	3381.2	29.3	38.8	50.8	40.4
77.5°	2519.8	18.0	30.1	52.5	49.1
80°	1696.2	15.5	31.8	49.1	38.8
82.5°	995.7	13.8	31.0	37.8	31.0
85°	421.7	11.2	20.6	31.0	25.8
87.5°	79.2	9.5	16.4	24.9	22.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)