

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: P730528

Luminaire Tested: **HBLED-LD5-18HE-N-CLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CLI-UNV-L750
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18218.0 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

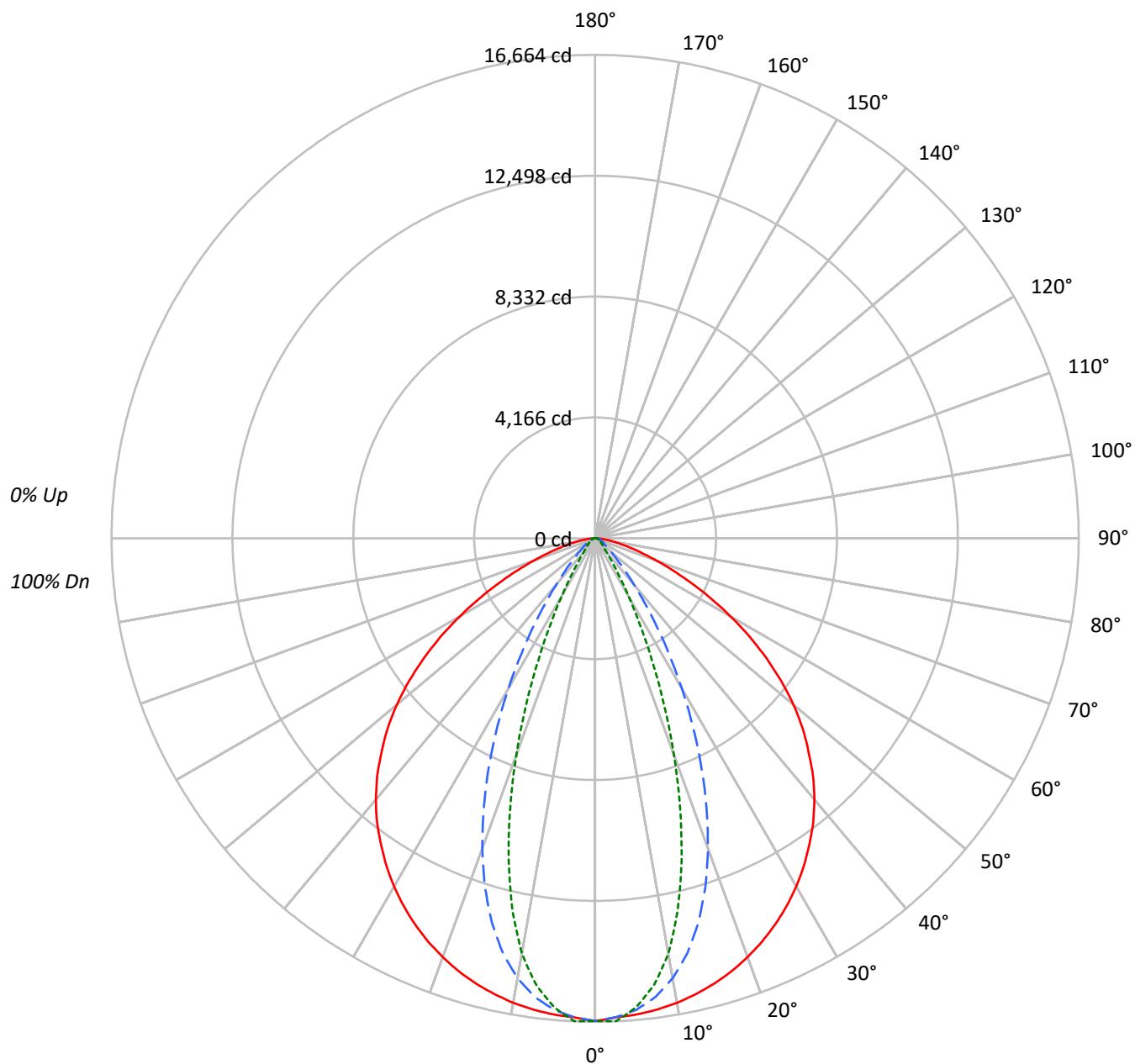
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	75		81
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	63	84	75	68	63	73	67	62		71	66	62		69
6	81	70	63	58	79	69	62	57	68	62	57		66	61	57		65
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60
8	72	61	54	49	70	60	53	49	59	53	48		58	52	48		57
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53
10	64	53	47	42	63	53	46	42	52	46	42		51	46	42		50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26868	26868	26868
5°	26706	26441	26302
10°	26662	25243	23821
15°	26554	22946	19238
20°	26395	19525	13635
25°	26159	15396	8238
30°	25841	11112	4234
35°	25375	7264	2115
40°	24773	4364	1234
45°	23744	2606	923
50°	22395	1704	775
55°	20268	1293	676
60°	17418	1101	617
65°	14010	1004	583
70°	10555	1076	579
75°	7764	1022	596
80°	5680	1018	653
85°	4255	1236	843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1532.5	8.4
10°-20°	3812.6	20.9
20°-30°	4223.0	23.2
30°-40°	3383.4	18.6
40°-50°	2415.3	13.3
50°-60°	1551.4	8.5
60°-70°	840.7	4.6
70°-80°	359.4	2.0
80°-90°	99.7	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°	9568.2	52.5
0°-40°	12951.6	71.1
0°-60°	16918.2	92.9
0°-90°	18218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18218.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16641	16641	16641	16641	16641	
5°	16478	16539	16314	16262	16228	###
15°	15886	15389	13727	12131	11509	4482
25°	14684	12947	8642	5630	4624	6765
35°	12874	9312	3686	1486	1073	8049
45°	10398	5375	1141	486	404	8015
55°	7200	2403	459	282	240	6417
65°	3667	987	263	181	152	3672
75°	1245	361	164	114	96	1383
85°	230	96	67	55	46	280
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16640.8	16640.8	16640.8	16640.8	16640.8
2.5°	16531.3	16634.7	16523.3	16592.6	16663.6
5°	16477.8	16539.2	16313.9	16262.1	16228.0
7.5°	16384.9	16367.3	15944.1	15669.7	15537.3
10°	16262.1	16120.2	15397.1	14794.1	14529.4
12.5°	16086.9	15794.2	14656.4	13597.7	13148.9
15°	15886.2	15389.2	13727.4	12131.4	11509.1
17.5°	15646.0	14915.9	12616.9	10559.0	9737.7
20°	15362.0	14344.5	11363.6	8888.4	7935.6
22.5°	15044.8	13685.3	10021.6	7223.0	6201.1
25°	14683.6	12947.3	8642.1	5630.5	4624.3
27.5°	14293.7	12127.9	7270.4	4207.1	3289.4
30°	13860.6	11240.9	5960.0	3033.5	2271.0
32.5°	13388.2	10297.8	4742.7	2133.3	1553.1
35°	12873.7	9311.7	3685.5	1486.5	1072.8
37.5°	12346.9	8305.5	2783.7	1050.9	769.6
40°	11753.6	7302.8	2070.3	769.6	585.4
42.5°	11116.4	6319.4	1532.1	592.5	474.2
45°	10398.5	5375.4	1141.2	485.6	404.1
47.5°	9702.6	4495.5	866.8	413.7	351.5
50°	8915.6	3701.4	678.4	361.1	308.5
52.5°	8080.3	3002.8	550.4	318.2	271.7
55°	7200.3	2403.3	459.2	282.2	240.2
57.5°	6308.9	1903.7	392.7	251.5	213.9
60°	5393.9	1522.4	340.9	225.2	191.0
62.5°	4500.7	1217.5	298.0	202.5	170.9
65°	3667.2	986.9	262.9	181.4	152.5
67.5°	2896.7	780.1	245.4	163.0	137.6
70°	2235.9	607.4	227.9	145.5	122.7
72.5°	1694.2	466.3	201.6	129.7	108.7
75°	1244.6	361.1	163.9	114.0	95.5
77.5°	890.5	277.9	133.2	99.0	82.4
80°	610.9	206.9	109.5	85.0	70.2
82.5°	397.1	146.4	88.5	70.2	57.8
85°	229.7	95.5	66.7	55.2	45.5
87.5°	99.0	52.6	45.5	41.2	35.0
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)