

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: P731091

Luminaire Tested: **HBLED-LD5-48SE-N-CLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731091
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-LD5-48SE-N-CLI-UNV-L740
Description: 48000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44126.0 lumens
Efficiency: N/A
Efficacy: 154.6 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

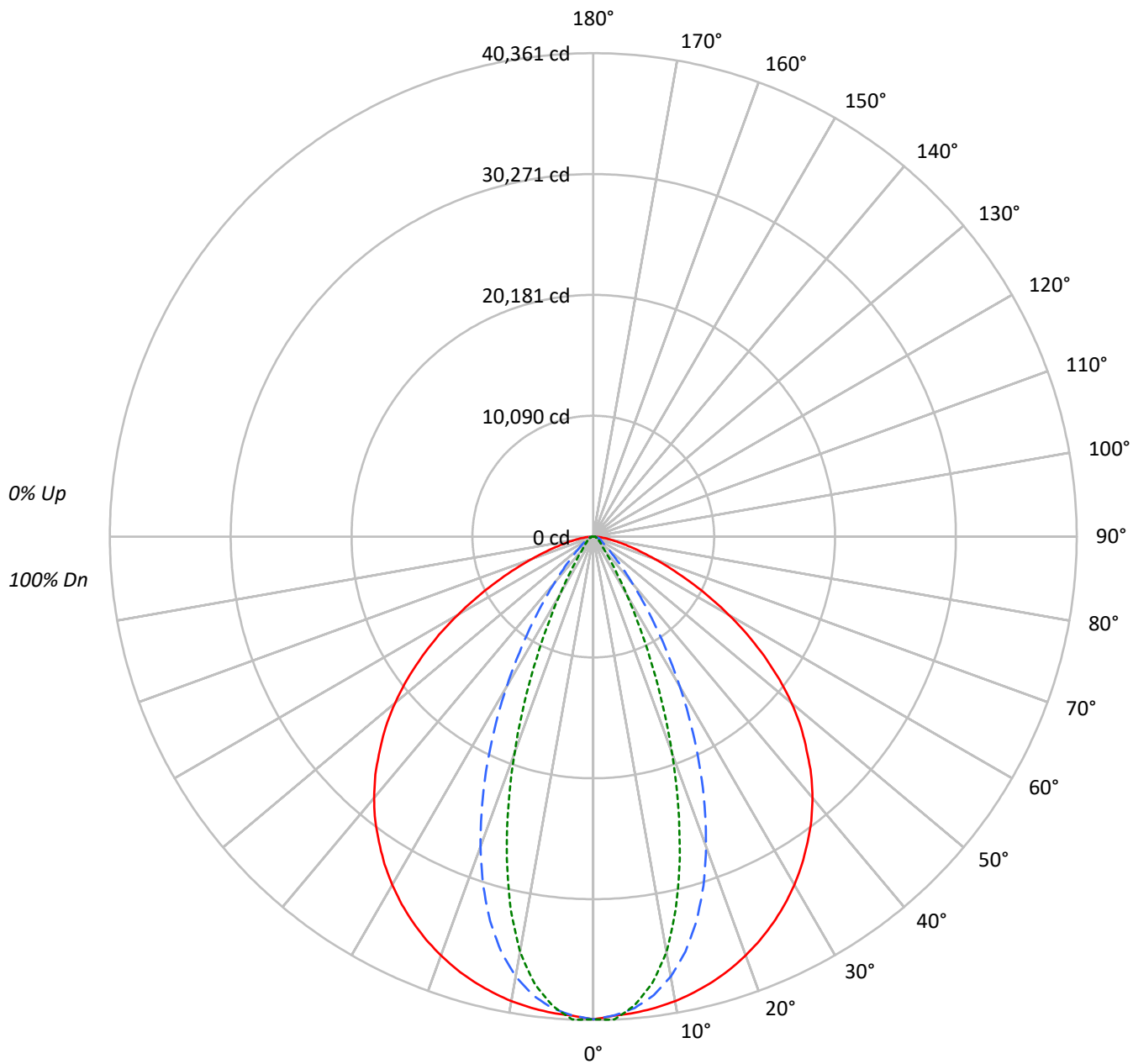
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	65077	65077	65077
5°	64686	64043	63706
10°	64578	61142	57697
15°	64318	55577	46596
20°	63932	47292	33026
25°	63360	37291	19954
30°	62590	26914	10255
35°	61460	17595	5122
40°	60003	10569	2989
45°	57510	6311	2235
50°	54242	4127	1877
55°	49092	3131	1637
60°	42188	2667	1494
65°	33935	2433	1411
70°	25565	2606	1403
75°	18805	2477	1443
80°	13757	2467	1580
85°	10306	2992	2043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3711.9	8.4
10°-20°	9234.5	20.9
20°-30°	10228.6	23.2
30°-40°	8195.0	18.6
40°-50°	5850.1	13.3
50°-60°	3757.6	8.5
60°-70°	2036.4	4.6
70°-80°	870.4	2.0
80°-90°	241.4	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°	23175.1	52.5
0°-40°	31370.1	71.1
0°-60°	40977.8	92.9
0°-90°	44126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	40306	40306	40306	40306	40306	
5°	39911	40060	39514	39389	39306	###
15°	38478	37274	33249	29384	27876	10857
25°	35565	31360	20932	13638	11200	16384
35°	31182	22554	8927	3600	2598	19496
45°	25186	13020	2764	1176	979	19413
55°	17440	5821	1112	684	582	15542
65°	8882	2390	637	440	369	8895
75°	3014	875	397	276	231	3350
85°	556	231	162	134	110	679
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	40305.8	40305.8	40305.8	40305.8	40305.8
2.5°	40040.5	40291.1	40021.3	40189.0	40361.0
5°	39911.0	40059.7	39514.0	39388.7	39306.1
7.5°	39685.9	39643.5	38618.3	37953.7	37633.0
10°	39388.7	39044.8	37293.4	35832.9	35191.8
12.5°	38964.2	38255.2	35499.5	32935.0	31848.2
15°	38478.0	37274.4	33249.2	29383.5	27876.2
17.5°	37896.3	36127.9	30559.5	25575.0	23585.7
20°	37208.5	34743.9	27523.8	21528.6	19220.9
22.5°	36440.1	33147.4	24273.5	17495.0	15019.8
25°	35565.4	31359.8	20932.2	13637.7	11200.5
27.5°	34620.8	29375.0	17609.8	10190.1	7967.2
30°	33571.9	27226.6	14435.9	7347.6	5500.6
32.5°	32427.7	24942.3	11487.3	5167.2	3761.9
35°	31181.6	22554.1	8926.8	3600.4	2598.4
37.5°	29905.6	20116.8	6742.4	2545.3	1864.0
40°	28468.4	17688.1	5014.4	1864.0	1418.0
42.5°	26925.1	15306.3	3711.0	1435.0	1148.5
45°	25186.4	13019.8	2764.1	1176.2	978.8
47.5°	23500.9	10888.6	2099.6	1002.0	851.3
50°	21594.5	8965.2	1643.1	874.7	747.2
52.5°	19571.3	7273.2	1333.2	770.6	658.1
55°	17439.8	5821.0	1112.3	683.6	581.7
57.5°	15280.9	4610.9	951.1	609.2	518.1
60°	13064.5	3687.5	825.8	545.5	462.7
62.5°	10901.3	2948.8	721.7	490.4	414.0
65°	8882.4	2390.3	636.9	439.5	369.4
67.5°	7016.2	1889.4	594.5	394.8	333.4
70°	5415.5	1471.2	552.0	352.4	297.2
72.5°	4103.5	1129.5	488.4	314.2	263.3
75°	3014.5	874.7	397.0	276.0	231.3
77.5°	2156.9	673.1	322.7	239.8	199.6
80°	1479.6	501.1	265.3	205.9	169.9
82.5°	961.8	354.6	214.4	169.9	140.0
85°	556.3	231.3	161.5	133.8	110.3
87.5°	239.8	127.3	110.3	99.8	84.9
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)