

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: P731058

Luminaire Tested: **HBLED-LD5-48HE-N-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731058
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-LD5-48HE-N-CLI-UNV-L840
Description: 48000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42614.0 lumens
Efficiency: N/A
Efficacy: 162.0 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

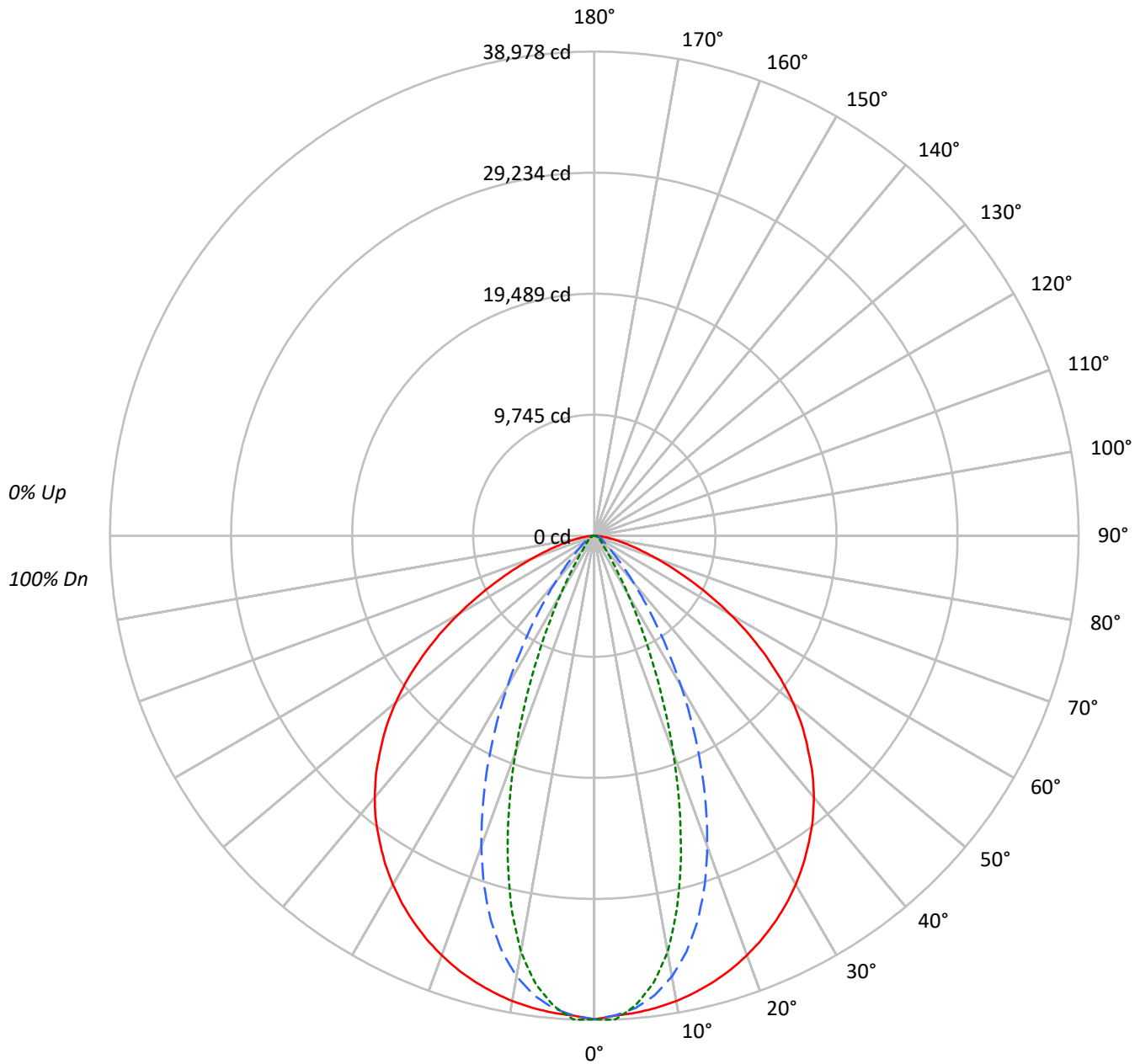
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	62847	62847	62847
5°	62469	61848	61523
10°	62365	59047	55720
15°	62114	53673	45000
20°	61741	45671	31894
25°	61189	36013	19270
30°	60446	25991	9904
35°	59355	16992	4946
40°	57947	10207	2886
45°	55539	6095	2158
50°	52383	3986	1813
55°	47410	3024	1581
60°	40742	2575	1443
65°	32772	2350	1363
70°	24689	2517	1355
75°	18161	2392	1394
80°	13286	2382	1526
85°	9952	2888	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3584.7	8.4
10°-20°	8918.1	20.9
20°-30°	9878.2	23.2
30°-40°	7914.2	18.6
40°-50°	5649.7	13.3
50°-60°	3628.9	8.5
60°-70°	1966.6	4.6
70°-80°	840.6	2.0
80°-90°	233.1	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°	22381.0	52.5
0°-40°	30295.2	71.1
0°-60°	39573.7	92.9
0°-90°	42614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	38925	38925	38925	38925	38925	
5°	38543	38687	38160	38039	37959	###
15°	37160	35997	32110	28377	26921	10485
25°	34347	30285	20215	13170	10817	15823
35°	30113	21781	8621	3477	2509	18828
45°	24323	12574	2669	1136	945	18748
55°	16842	5622	1074	660	562	15010
65°	8578	2308	615	424	357	8590
75°	2911	845	383	267	223	3235
85°	537	223	156	129	106	656
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	38924.7	38924.7	38924.7	38924.7	38924.7
2.5°	38668.5	38910.5	38650.0	38811.9	38978.0
5°	38543.4	38687.1	38160.0	38039.0	37959.2
7.5°	38326.1	38285.1	37295.0	36653.2	36343.5
10°	38039.0	37706.9	36015.5	34605.1	33985.9
12.5°	37629.1	36944.3	34283.1	31806.5	30756.9
15°	37159.6	35997.2	32109.9	28376.7	26921.0
17.5°	36597.8	34890.0	29512.3	24698.6	22777.6
20°	35933.6	33553.3	26580.7	20790.9	18562.3
22.5°	35191.5	32011.6	23441.8	16895.5	14505.1
25°	34346.7	30285.3	20214.9	13170.4	10816.7
27.5°	33434.5	28368.5	17006.3	9840.9	7694.2
30°	32421.6	26293.6	13941.2	7095.8	5312.1
32.5°	31316.5	24087.7	11093.7	4990.1	3633.0
35°	30113.2	21781.2	8620.9	3477.1	2509.4
37.5°	28880.9	19427.5	6511.4	2458.1	1800.1
40°	27492.9	17082.0	4842.6	1800.1	1369.4
42.5°	26002.5	14781.8	3583.8	1385.8	1109.1
45°	24323.4	12573.7	2669.4	1135.9	945.2
47.5°	22695.6	10515.5	2027.6	967.7	822.1
50°	20854.5	8658.0	1586.8	844.7	721.6
52.5°	18900.7	7024.0	1287.5	744.2	635.5
55°	16842.2	5621.6	1074.2	660.1	561.8
57.5°	14757.2	4452.9	918.5	588.3	500.3
60°	12616.8	3561.2	797.5	526.9	446.8
62.5°	10527.8	2847.8	697.0	473.6	399.8
65°	8578.0	2308.4	615.1	424.4	356.7
67.5°	6775.8	1824.7	574.1	381.3	322.0
70°	5229.9	1420.8	533.1	340.3	287.0
72.5°	3962.9	1090.8	471.6	303.4	254.3
75°	2911.2	844.7	383.4	266.6	223.4
77.5°	2083.0	650.0	311.6	231.6	192.8
80°	1428.9	483.9	256.2	198.8	164.1
82.5°	928.8	342.5	207.0	164.1	135.2
85°	537.2	223.4	155.9	129.2	106.5
87.5°	231.6	122.9	106.5	96.4	81.9
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)