

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: P830497

Luminaire Tested: **OHBL-48HE-N-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-N-UNV-L940-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

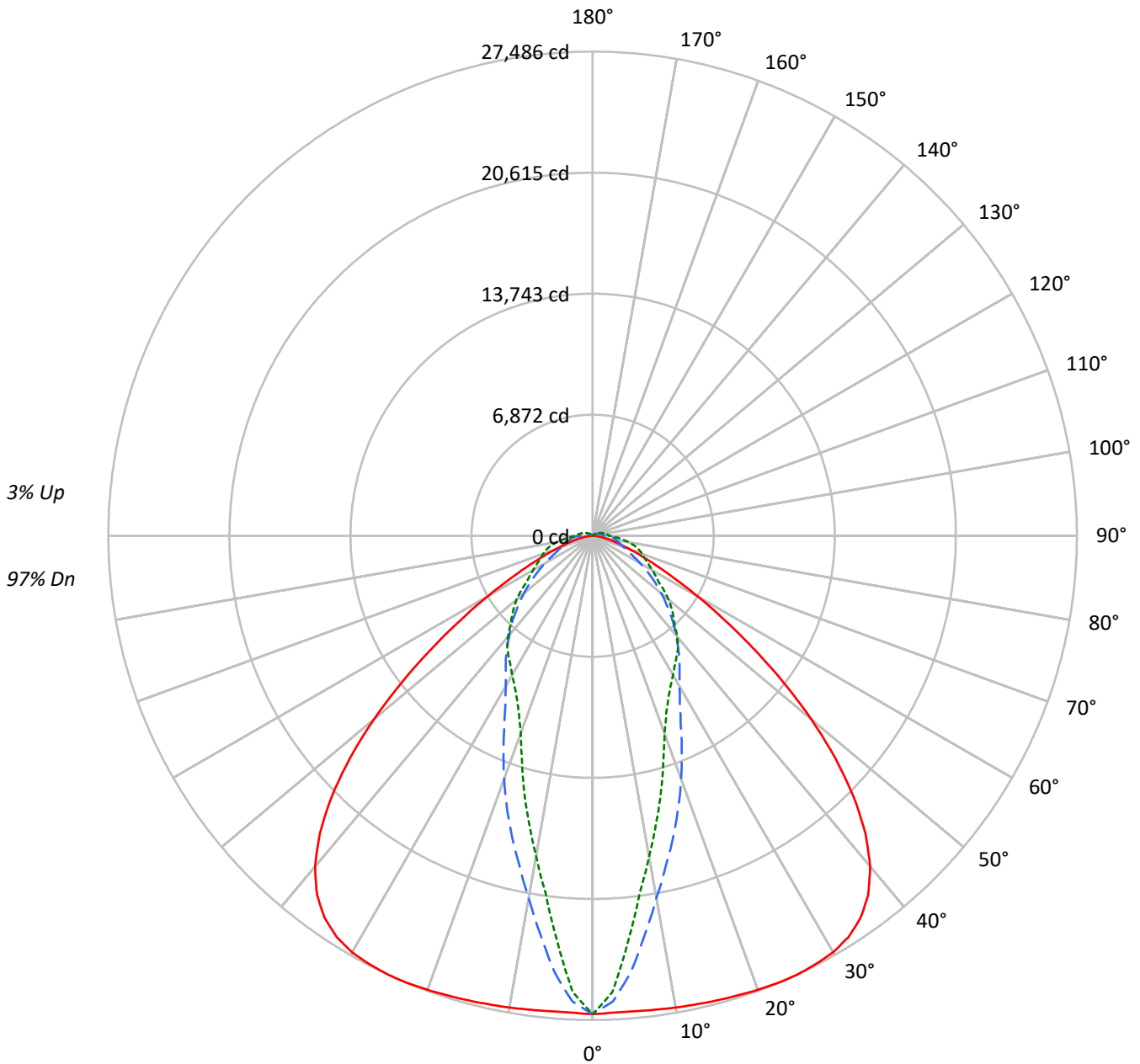
Lumens per Lamp: N/A
Luminaire Lumens: 40075.0 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 266
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									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	0																
RCR																																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42942	42942	42942
5°	42854	39124	36382
10°	43338	32970	29192
15°	44184	28210	23975
20°	45425	23864	19405
25°	46996	19763	17014
30°	48621	17034	15818
35°	49633	15533	15082
40°	48783	14040	14322
45°	44879	12696	13272
50°	37864	11226	12472
55°	28771	9842	11113
60°	20162	8451	10658
65°	13562	7289	10456
70°	9262	6855	11002
75°	6427	7090	11805
80°	4425	7890	12237
85°	2588	9959	13007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2285.7	5.7
10°-20°	5377.0	13.4
20°-30°	6740.0	16.8
30°-40°	7151.9	17.8
40°-50°	6466.5	16.1
50°-60°	4688.6	11.7
60°-70°	2942.3	7.3
70°-80°	1947.1	4.9
80°-90°	1121.8	2.8
90°-100°	543.5	1.4
100°-110°	375.1	0.9
110°-120°	231.5	0.6
120°-130°	112.1	0.3
130°-140°	51.6	0.1
140°-150°	28.2	0.1
150°-160°	12.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14402.7	35.9
0°-40°	21554.6	53.8
0°-60°	32709.7	81.6
0°-90°	38720.9	96.6
90°-120°	1150.0	2.9
90°-150°	1341.8	3.3
90°-180°	1354.0	3.4
0°-180°	40075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27153	27153	27153	27153	27153	
5°	27099	26404	24853	23700	23103	###
15°	27305	22256	17676	15720	15007	7744
25°	27486	17209	11836	10505	10172	12698
35°	26502	11441	8590	8321	8319	16475
45°	20951	7246	6226	6375	6484	15960
55°	11092	4492	4062	4406	4564	10022
65°	3967	2605	2352	3013	3349	4128
75°	1225	1403	1579	2452	2600	1365
85°	214	582	1155	1607	1476	257
90°	0	243	669	943	951	14
95°	10	171	589	801	837	9
105°	21	114	429	568	584	21
115°	28	80	289	362	370	28
125°	31	41	147	186	184	27
135°	26	31	65	101	101	20
145°	31	34	39	59	57	19
155°	31	39	41	44	39	10
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27152.9	27152.9	27152.9	27152.9	27152.9
2.5°	27096.1	26941.0	26457.8	26163.2	25915.1
5°	27098.7	26403.5	24852.9	23700.4	23103.4
7.5°	27137.4	25592.0	22798.5	21116.1	20459.7
10°	27196.9	24586.8	20880.9	19087.4	18475.0
12.5°	27240.8	23454.9	19193.4	17350.8	16678.9
15°	27305.4	22255.8	17676.4	15720.1	15006.9
17.5°	27364.9	21126.4	16177.5	14133.4	13340.0
20°	27424.3	19909.2	14678.7	12572.5	11918.7
22.5°	27481.2	18624.9	13216.0	11360.5	10913.4
25°	27486.3	17208.7	11836.0	10505.1	10171.7
27.5°	27419.1	15740.8	10717.0	9789.2	9582.5
30°	27302.8	14316.9	9848.7	9272.4	9125.1
32.5°	27013.4	12864.5	9176.8	8773.6	8688.3
35°	26501.7	11440.6	8590.1	8321.4	8318.8
37.5°	25695.4	10176.9	7954.4	7907.9	7964.7
40°	24504.1	9070.8	7352.3	7476.3	7476.3
42.5°	22914.7	8109.4	6807.0	6933.6	6900.0
45°	20950.7	7246.3	6225.5	6375.4	6483.9
47.5°	18674.0	6486.5	5631.1	5920.6	6070.5
50°	16198.2	5762.9	5088.4	5458.0	5628.5
52.5°	13603.6	5093.6	4558.7	4982.5	5119.4
55°	11091.7	4491.5	4062.5	4406.2	4563.8
57.5°	8817.5	3917.8	3576.6	3902.3	4227.9
60°	6861.2	3424.2	3119.2	3584.4	3910.0
62.5°	5240.9	2984.8	2690.2	3287.2	3612.8
65°	3966.9	2604.9	2351.7	3013.3	3349.2
67.5°	2990.0	2276.7	2088.1	2814.3	3142.5
70°	2245.7	1958.9	1876.2	2690.2	2984.8
72.5°	1659.1	1666.9	1708.2	2581.7	2806.5
75°	1224.9	1403.3	1579.0	2452.5	2599.8
77.5°	876.1	1162.9	1462.7	2297.4	2349.1
80°	607.3	948.4	1341.2	2093.3	2049.3
82.5°	379.9	759.8	1232.7	1868.4	1747.0
85°	214.5	581.5	1155.2	1607.4	1475.6
87.5°	95.6	434.2	1010.5	1253.4	1170.7
90°	0.0	242.9	669.3	943.3	951.0
92.5°	5.2	201.6	617.6	863.1	889.0
95°	10.3	170.6	589.2	801.1	837.3
97.5°	12.9	149.9	553.0	744.3	775.3
100°	15.5	134.4	509.1	684.8	710.7
102.5°	18.1	124.0	467.8	622.8	643.5
105°	20.7	113.7	429.0	568.5	584.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25.8	87.9	323.0	408.3	421.2
115°	28.4	80.1	289.4	361.8	369.6
117.5°	31.0	69.8	253.3	317.9	320.4
120°	31.0	62.0	217.1	271.3	271.3
122.5°	31.0	51.7	180.9	224.8	222.2
125°	31.0	41.3	147.3	186.1	183.5
127.5°	28.4	33.6	118.9	155.1	152.5
130°	28.4	33.6	95.6	131.8	131.8
132.5°	25.8	31.0	77.5	113.7	113.7
135°	25.8	31.0	64.6	100.8	100.8
137.5°	25.8	33.6	54.3	87.9	87.9
140°	25.8	31.0	46.5	77.5	77.5
142.5°	28.4	31.0	41.3	67.2	67.2
145°	31.0	33.6	38.8	59.4	56.9
147.5°	31.0	36.2	38.8	51.7	49.1
150°	31.0	38.8	38.8	46.5	43.9
152.5°	31.0	38.8	38.8	43.9	41.3
155°	31.0	38.8	41.3	43.9	38.8
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	20.7	106.0	392.8	509.1	527.2
110°	23.3	95.6	359.2	454.8	472.9



(END OF REPORT)