

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: P827812

Luminaire Tested: **OHBL-48HE-MCL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827812
REPORT IS A COMBINATION OF REPORTS P826252 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-MCL-UNV-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

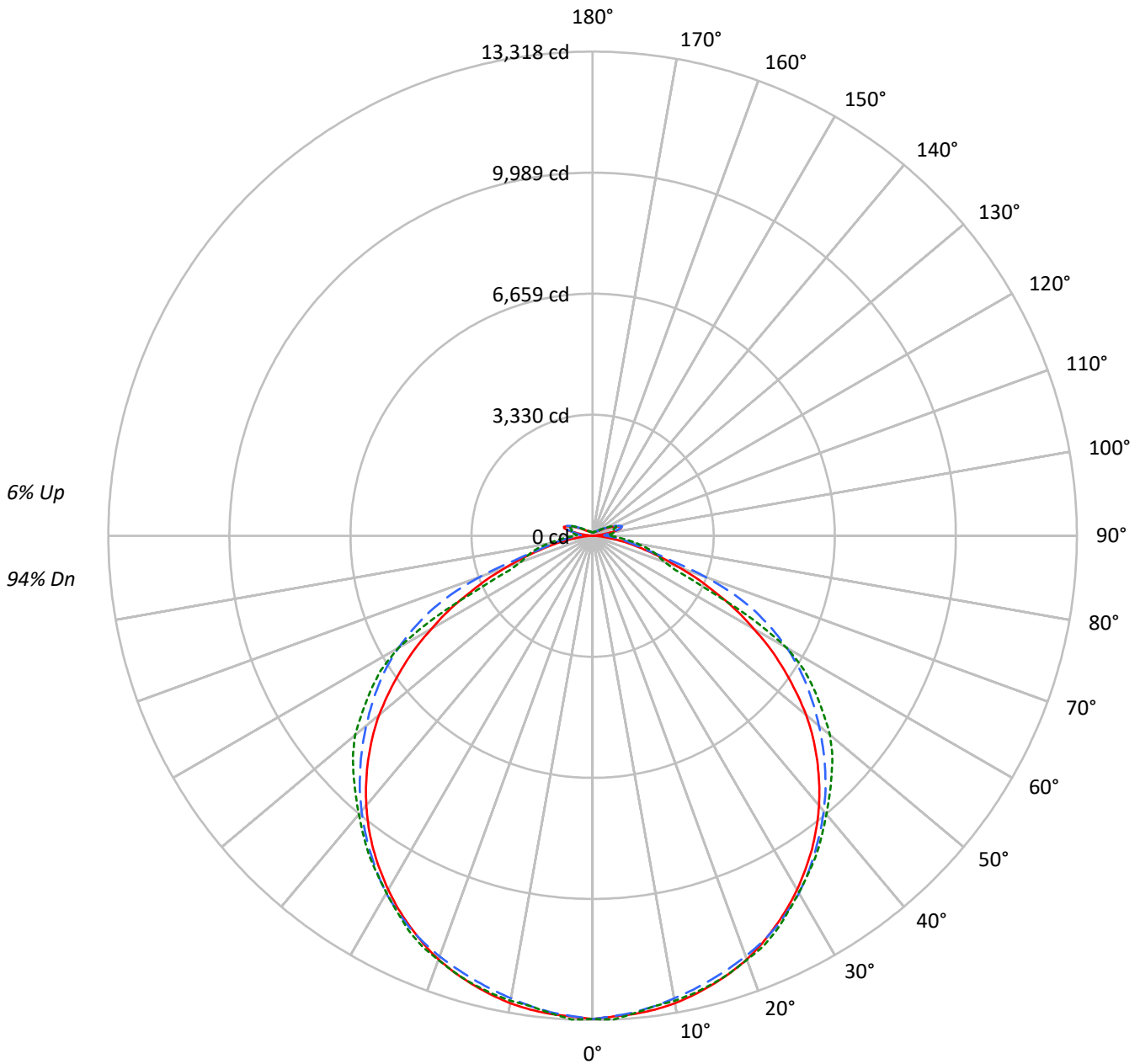
Lumens per Lamp: N/A
Luminaire Lumens: 39522.1 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 283.4
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	114	114	114	114	108	108	108	102	102	102	97	97	97	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	67																			
3	90	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	58	53	62	56	52	60	55	50	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	36																			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21019	21019	21019
5°	20794	20714	20845
10°	20630	20400	20701
15°	20411	20165	20651
20°	20190	20018	20560
25°	19853	19868	20474
30°	19491	19634	20188
35°	19073	19262	20083
40°	18554	18877	19910
45°	17871	18432	19916
50°	16982	17926	19918
55°	15644	17427	19361
60°	13939	16698	18116
65°	11772	15344	11662
70°	9280	11978	8639
75°	6737	7111	9055
80°	4441	5913	9129
85°	2253	5417	9599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1253.2	3.2
10°-20°	3593.6	9.1
20°-30°	5488.5	13.9
30°-40°	6659.5	16.8
40°-50°	6979.7	17.7
50°-60°	6324.7	16.0
60°-70°	4240.5	10.7
70°-80°	1904.2	4.8
80°-90°	696.0	1.8
90°-100°	395.4	1.0
100°-110°	748.8	1.9
110°-120°	607.3	1.5
120°-130°	294.9	0.7
130°-140°	152.6	0.4
140°-150°	90.2	0.2
150°-160°	54.6	0.1
160°-170°	29.5	0.1
170°-180°	9.0	0.0
0°-30°	10335.3	26.2
0°-40°	16994.8	43.0
0°-60°	30299.2	76.7
0°-90°	37139.8	94.0
90°-120°	1751.5	4.4
90°-150°	2289.2	5.8
90°-180°	2382.0	6.0
0°-180°	39522.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13291	13291	13291	13291	13291	
5°	13204	13250	13158	13198	13181	###
15°	12776	12726	12636	12747	12762	3607
25°	11869	11817	11899	12009	11974	5471
35°	10520	10545	10652	10766	10723	6575
45°	8730	8873	9038	9269	9297	6725
55°	6424	6734	7193	7481	7464	5735
65°	3770	4360	4950	4178	3411	3757
75°	1484	2152	1584	1620	1726	1621
85°	256	490	628	759	796	312
90°	6	191	363	458	482	18
95°	45	192	362	455	487	136
105°	818	846	792	618	585	778
115°	575	588	621	634	634	578
125°	287	303	328	333	332	270
135°	179	184	192	203	206	142
145°	134	140	142	145	148	86
155°	113	117	118	119	117	53
165°	102	103	104	104	104	29
175°	94	95	93	92	92	9
180°	92	92	92	92	92	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13290.8	13290.8	13290.8	13290.8	13290.8
2.5°	13236.9	13292.7	13223.5	13298.5	13317.7
5°	13204.3	13250.4	13158.1	13198.5	13181.2
7.5°	13144.7	13160.1	13050.5	13083.2	13048.6
10°	13056.3	13048.6	12919.8	12983.3	12991.0
12.5°	12925.7	12902.5	12787.3	12883.4	12885.3
15°	12775.7	12725.8	12635.5	12746.9	12762.3
17.5°	12602.8	12537.4	12477.8	12622.0	12598.9
20°	12401.0	12324.1	12312.6	12470.2	12412.5
22.5°	12151.2	12091.6	12118.5	12268.4	12231.9
25°	11868.7	11816.8	11899.4	12009.0	11974.4
27.5°	11570.8	11540.1	11634.3	11718.8	11651.6
30°	11244.1	11226.8	11351.7	11420.9	11336.4
32.5°	10888.6	10894.4	11013.5	11107.6	11028.9
35°	10519.6	10544.6	10652.2	10765.6	10723.4
37.5°	10114.1	10169.9	10277.5	10406.2	10362.0
40°	9685.6	9766.3	9885.4	10041.1	10000.8
42.5°	9222.4	9324.3	9478.0	9651.0	9647.1
45°	8730.5	8872.7	9038.0	9268.6	9297.4
47.5°	8219.3	8378.8	8588.3	8895.7	8939.9
50°	7663.9	7863.8	8125.1	8494.1	8521.0
52.5°	7045.1	7318.0	7663.9	8017.5	7984.9
55°	6424.4	6733.8	7193.1	7481.4	7464.1
57.5°	5805.6	6153.4	6710.7	6916.3	6914.4
60°	5113.8	5553.8	6163.1	6318.7	6164.9
62.5°	4473.8	4946.6	5578.8	5465.5	4938.9
65°	3770.5	4360.4	4950.4	4177.9	3411.1
67.5°	3145.9	3760.9	4204.8	2861.5	2450.2
70°	2517.5	3195.8	3278.5	2123.5	2094.7
72.5°	1960.2	2682.8	2261.9	1817.9	1910.2
75°	1483.6	2152.3	1583.5	1620.1	1725.7
77.5°	1082.0	1652.7	1231.8	1420.2	1506.7
80°	743.7	1170.3	1005.1	1193.4	1253.0
82.5°	467.0	772.5	805.2	960.9	1022.4
85°	255.6	490.0	628.4	759.1	795.6
87.5°	105.7	295.9	480.5	586.1	616.8
90°	6.0	190.8	362.8	457.5	482.4
92.5°	15.7	161.3	323.4	411.0	435.0
95°	44.8	191.6	362.0	455.3	487.2
97.5°	221.3	316.0	439.4	531.2	565.6
100°	451.9	540.9	538.0	592.5	605.5
102.5°	697.2	739.3	630.3	605.4	604.7
105°	818.4	846.1	791.8	618.4	584.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	666.6	689.8	715.2	713.9	691.9
115°	574.7	588.1	620.7	634.5	633.5
117.5°	493.9	498.6	530.6	541.3	546.0
120°	411.4	422.3	454.5	460.1	457.2
122.5°	347.6	357.3	383.3	391.3	388.3
125°	286.6	303.1	328.0	333.0	332.5
127.5°	246.5	257.0	280.5	287.1	288.2
130°	216.6	225.0	242.7	251.2	252.0
132.5°	195.9	203.5	214.9	225.8	225.0
135°	179.0	184.1	191.7	202.9	206.4
137.5°	167.2	169.6	174.4	186.5	188.3
140°	155.0	158.3	160.4	169.7	172.4
142.5°	142.6	147.8	149.1	156.4	158.4
145°	134.5	139.7	142.1	144.9	147.5
147.5°	129.2	132.4	134.0	135.6	137.6
150°	123.5	125.1	127.6	128.4	129.2
152.5°	117.9	119.5	121.9	122.7	122.7
155°	113.0	116.6	118.2	119.0	117.0
157.5°	109.0	112.5	114.1	114.9	114.9
160°	105.7	108.5	110.1	110.9	110.9
162.5°	104.4	105.2	106.1	106.9	106.9
165°	102.0	102.8	103.6	103.6	103.6
167.5°	99.6	101.4	100.4	101.2	101.2
170°	97.2	98.0	98.0	96.8	96.8
172.5°	95.5	96.4	96.4	94.4	95.2
175°	93.9	94.7	92.8	91.7	91.7
177.5°	95.8	93.9	92.0	90.0	88.1
180°	92.0	92.0	92.0	92.0	92.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	823.6	853.8	848.3	702.7	607.9
110°	762.5	788.9	800.7	755.7	680.3



(END OF REPORT)