

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: P828713

Luminaire Tested: **OHBL-48HE-MFL-UNV-L950-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828713
REPORT IS A COMBINATION OF REPORTS P826253 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-MFL-UNV-L950-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

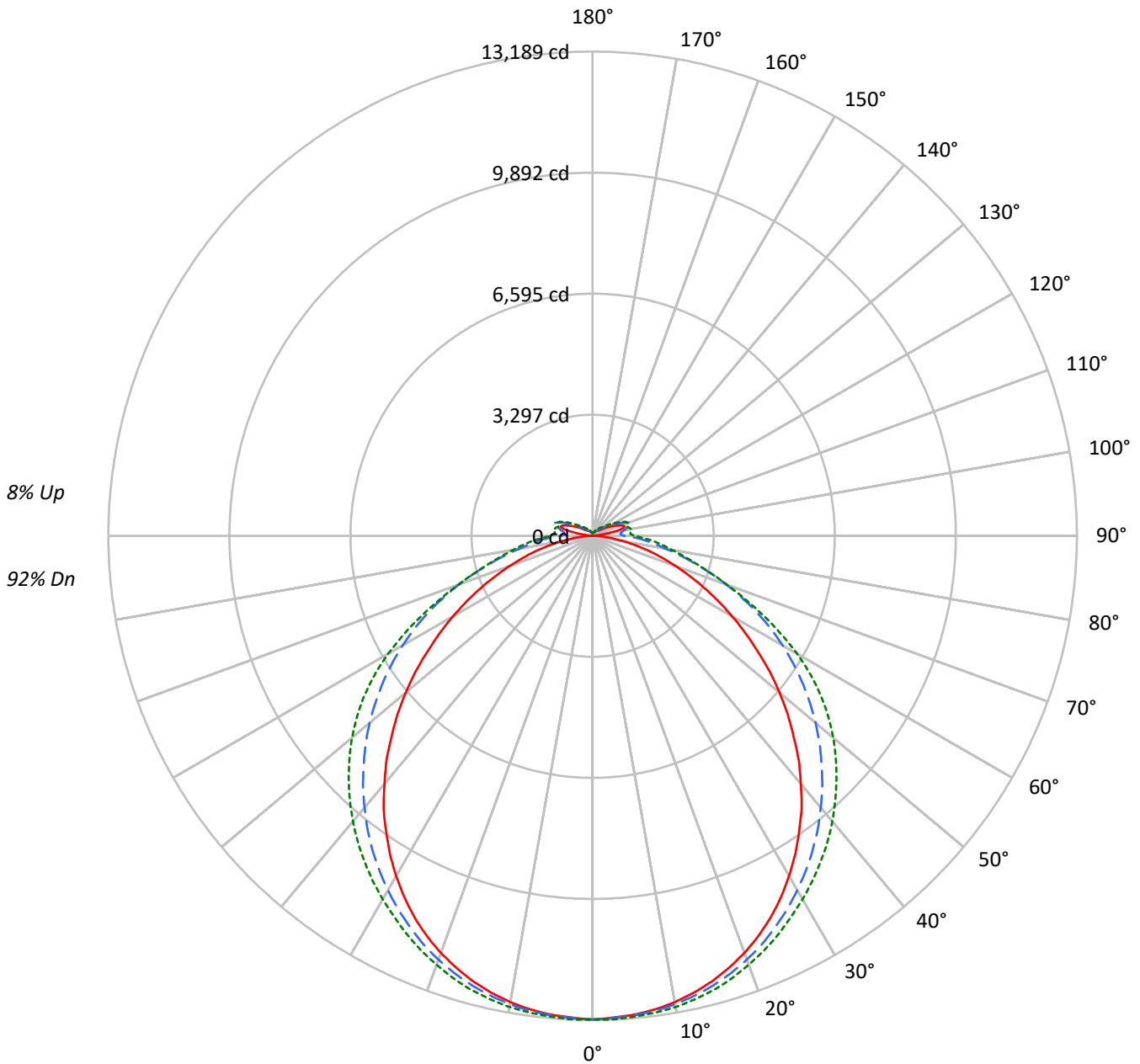
Lumens per Lamp: N/A
Luminaire Lumens: 41537.9 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P828713

CATALOG NUMBER: OHBL-48HE-MFL-UNV-L950-CD-UPL24

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	95	95	95	92
1	106	101	97	93	103	98	94	91	93	89	86	87	85	82	82	80	78	82	80	78	76
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	68	65	72	68	65	63
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	64	59	55	53
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	57	52	47	45
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	51	46	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	46	41	36	34
7	63	50	41	35	61	49	40	34	46	39	34	44	38	33	42	36	32	42	36	32	30
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	39	33	29	27
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	36	30	26	36	30	26	24
10	51	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20838	20838	20838
5°	20617	20640	20791
10°	20386	20458	20770
15°	20072	20241	20716
20°	19683	19974	20596
25°	19192	19642	20477
30°	18547	19281	20363
35°	17785	18898	20286
40°	16889	18455	20222
45°	15849	17973	20122
50°	14719	17487	19990
55°	13357	16891	19681
60°	11963	16189	18904
65°	10450	15292	17507
70°	8820	14150	16013
75°	7161	12830	15228
80°	5141	11875	15952
85°	2899	12342	19999



TEST NUMBER: P828713

CATALOG NUMBER: OHBL-48HE-MFL-UNV-L950-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1248.5	3.0
10°-20°	3581.8	8.6
20°-30°	5416.8	13.0
30°-40°	6502.9	15.7
40°-50°	6716.4	16.2
50°-60°	6042.7	14.5
60°-70°	4551.9	11.0
70°-80°	2748.6	6.6
80°-90°	1349.6	3.2
90°-100°	767.4	1.8
100°-110°	1022.8	2.5
110°-120°	789.9	1.9
120°-130°	395.2	1.0
130°-140°	200.6	0.5
140°-150°	111.0	0.3
150°-160°	58.9	0.1
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	10247.1	24.7
0°-40°	16750.0	40.3
0°-60°	29509.1	71.0
0°-90°	38159.2	91.9
90°-120°	2580.1	6.2
90°-150°	3286.9	7.9
90°-180°	3379.0	8.1
0°-180°	41537.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13176	13176	13176	13176	13176	
5°	13092	13128	13112	13163	13147	###
15°	12563	12625	12683	12789	12802	3542
25°	11473	11599	11764	11948	11976	5277
35°	9810	10038	10451	10767	10832	6132
45°	7742	8133	8813	9294	9394	5977
55°	5485	6053	6972	7497	7588	4918
65°	3347	4031	4934	5179	5121	3325
75°	1577	2264	2857	2931	2902	1682
85°	329	867	1432	1628	1658	380
90°	4	368	860	1086	1134	24
95°	62	325	762	979	1034	157
105°	895	995	1088	987	964	850
115°	628	682	827	899	907	633
125°	320	345	448	505	512	299
135°	196	206	251	301	316	155
145°	158	159	164	191	202	99
155°	133	138	137	134	138	57
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



TEST NUMBER: P828713

CATALOG NUMBER: OHBL-48HE-MFL-UNV-L950-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13176.0	13176.0	13176.0	<i>13176.0</i>	13176.0
2.5°	<i>13137.3</i>	<i>13169.6</i>	<i>13150.3</i>	<i>13192.2</i>	<i>13189.0</i>
5°	13092.2	13127.7	13111.6	<i>13163.1</i>	13147.0
7.5°	13014.8	13053.5	13050.3	<i>13108.4</i>	13101.8
10°	12901.9	12943.9	12956.7	<i>13034.2</i>	13034.2
12.5°	12747.2	12802.0	12834.2	<i>12927.8</i>	12931.0
15°	12563.4	12624.6	12682.7	<i>12789.1</i>	12802.0
17.5°	12340.8	12418.3	12498.9	<i>12621.4</i>	12637.5
20°	12089.4	12176.4	12286.0	<i>12415.0</i>	12434.4
22.5°	11799.1	11902.3	12044.2	<i>12195.7</i>	12218.3
25°	11473.4	11599.2	11763.7	<i>11947.5</i>	11976.4
27.5°	11102.5	11247.7	11470.1	<i>11676.6</i>	11702.4
30°	10699.5	10870.4	11147.8	<i>11392.8</i>	11434.7
32.5°	10273.8	10470.5	10812.3	<i>11086.5</i>	11144.5
35°	9809.5	10038.4	10451.2	<i>10767.2</i>	10831.7
37.5°	9351.6	9603.1	10070.7	<i>10431.9</i>	10509.2
40°	8816.3	9129.1	9664.4	<i>10064.3</i>	10157.7
42.5°	8313.2	8651.8	9258.0	<i>9693.3</i>	9783.7
45°	7742.5	8132.6	8813.0	<i>9293.5</i>	9393.5
47.5°	7207.2	7629.5	8384.1	<i>8880.8</i>	8984.0
50°	6642.8	7107.2	7926.3	<i>8445.4</i>	8551.9
52.5°	6078.5	6578.3	7452.3	<i>7990.7</i>	8090.7
55°	5485.2	6052.7	6971.7	<i>7497.4</i>	7587.6
57.5°	4933.7	5533.6	6478.4	<i>6978.2</i>	7033.0
60°	4388.8	5011.1	5975.3	<i>6413.9</i>	6433.2
62.5°	3856.7	4511.3	5459.4	<i>5807.6</i>	5781.9
65°	3347.2	4030.8	4933.7	<i>5178.8</i>	5120.8
67.5°	2857.1	3563.2	4395.2	<i>4553.3</i>	4475.8
70°	2392.7	3108.6	3872.9	<i>3953.5</i>	3882.5
72.5°	1983.2	2676.5	3344.0	<i>3411.7</i>	3360.1
75°	1576.9	2263.7	2857.1	<i>2931.2</i>	2902.2
77.5°	1196.4	1863.8	2408.8	<i>2505.6</i>	2512.0
80°	861.0	1499.4	2018.7	<i>2170.2</i>	2189.5
82.5°	567.6	1164.1	1693.0	<i>1886.4</i>	1915.5
85°	328.9	867.4	1431.7	<i>1628.5</i>	1657.5
87.5°	141.9	625.6	1151.2	<i>1328.6</i>	1364.1
90°	4.3	368.1	860.0	<i>1085.8</i>	1133.8
92.5°	24.4	319.7	765.5	<i>985.2</i>	1031.9
95°	62.2	325.4	762.2	<i>978.6</i>	1033.7
97.5°	253.3	446.5	804.2	<i>1009.9</i>	1067.7
100°	499.3	677.2	872.4	<i>1031.2</i>	1064.9
102.5°	761.0	885.6	940.4	<i>1004.0</i>	1019.7
105°	894.7	994.7	1088.5	<i>986.9</i>	963.6



TEST NUMBER: P828713

CATALOG NUMBER: OHBL-48HE-MFL-UNV-L950-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	728.3	800.0	944.1	1007.9	993.0
115°	627.5	681.9	827.0	899.4	907.1
117.5°	543.8	580.1	712.5	782.6	793.2
120°	455.1	490.5	614.3	674.4	682.2
122.5°	386.4	412.9	524.5	584.1	588.5
125°	319.7	345.0	447.9	505.0	512.1
127.5°	271.3	289.0	381.5	440.5	449.2
130°	239.1	249.3	328.9	384.6	395.1
132.5°	214.8	227.3	284.9	340.0	352.0
135°	196.5	206.4	251.2	301.3	316.0
137.5°	181.7	190.8	221.8	269.5	282.4
140°	171.9	178.6	199.0	239.4	253.3
142.5°	163.8	167.3	177.2	214.4	224.1
145°	158.3	158.6	164.4	191.1	201.6
147.5°	150.5	154.0	155.7	170.3	180.1
150°	144.4	149.4	148.8	152.8	163.4
152.5°	138.3	143.3	142.7	140.3	146.8
155°	133.1	138.1	136.6	134.2	137.5
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	898.1	995.1	1124.0	1046.6	956.6
110°	830.3	918.7	1053.8	1077.1	1008.0



(END OF REPORT)