

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: P828209

Luminaire Tested: **OHB-24SE-MFL-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828209
REPORT IS A COMBINATION OF REPORTS P826295 AND G3-2310-221-2
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-24SE-MFL-UNV-L940-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

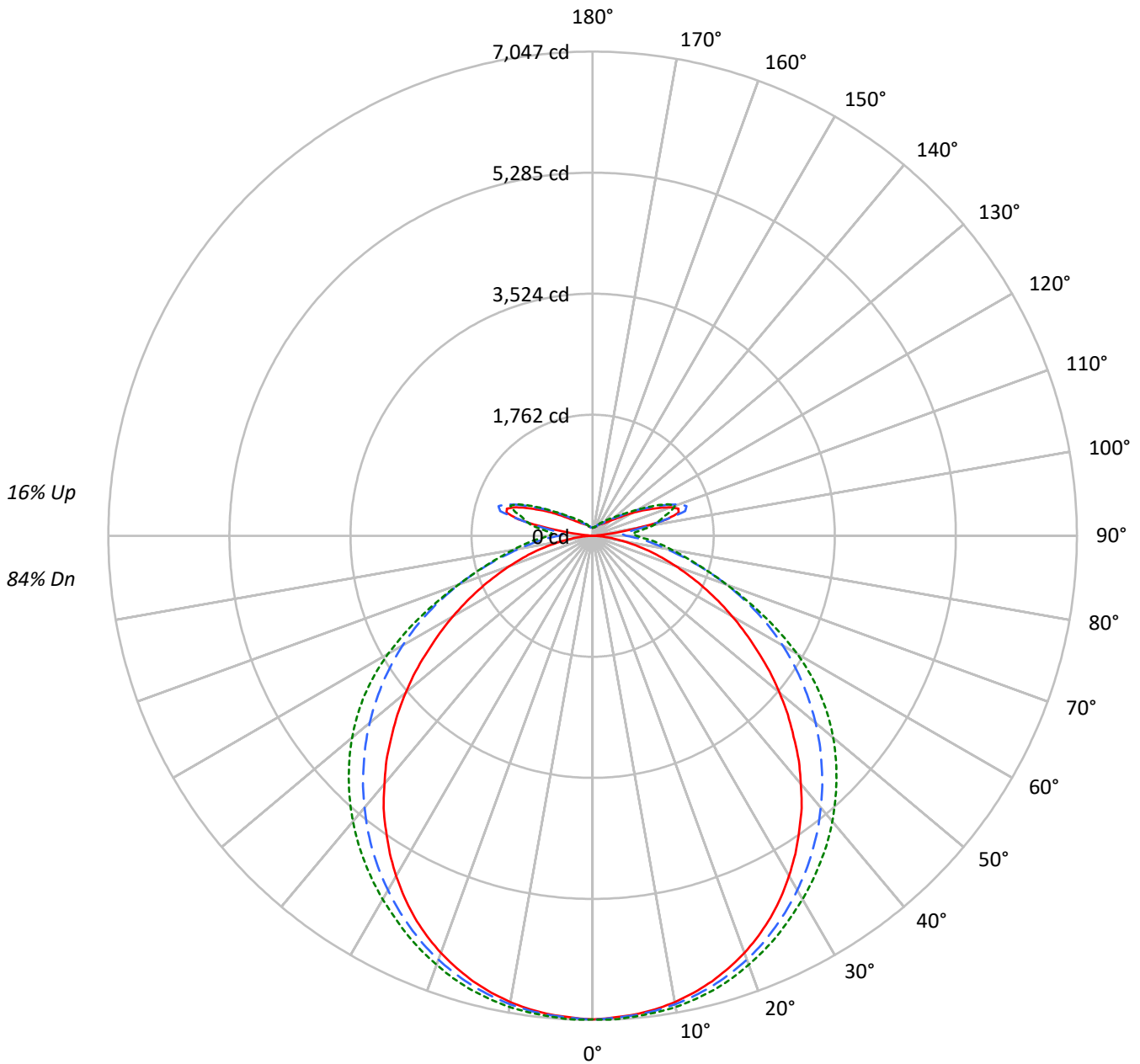
Lumens per Lamp: N/A
Luminaire Lumens: 24184.5 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 175.4
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: P828209

CATALOG NUMBER: OHB-24SE-MFL-UNV-L940-CD-UPL36

Luminous Intensity Polar Plot





TEST NUMBER: P828209

CATALOG NUMBER: OHB-24SE-MFL-UNV-L940-CD-UPL36

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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84																			
1	105	100	95	91	100	96	92	88	89	86	83	82	80	78	76	74	73	69																			
2	95	87	80	74	91	84	77	72	78	72	68	72	68	64	67	63	61	58																			
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	59	55	51	48																			
4	79	67	59	52	76	65	57	51	61	54	48	56	51	46	53	48	44	41																			
5	73	60	51	45	70	58	50	44	54	47	42	51	45	40	47	42	38	36																			
6	67	54	45	39	64	52	44	38	49	42	37	46	40	35	43	38	34	31																			
7	62	49	40	34	60	47	39	34	44	37	32	42	36	31	39	34	30	28																			
8	58	45	36	30	55	43	35	30	41	34	29	38	32	28	36	31	27	25																			
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22																			
10	51	38	30	25	49	37	29	24	34	28	23	33	27	23	31	26	22	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23518	23518	23518
5°	23254	23224	23379
10°	22979	22950	23270
15°	22609	22637	23122
20°	22156	22269	22900
25°	21589	21827	22675
30°	20848	21352	22450
35°	19976	20850	22258
40°	18952	20277	22071
45°	17767	19658	21829
50°	16481	19024	21534
55°	14936	18261	21023
60°	13354	17369	19981
65°	11640	16249	18252
70°	9795	14842	16381
75°	7919	13211	15142
80°	5646	11878	15115
85°	3142	11704	17095



TEST NUMBER: P828209

CATALOG NUMBER: OHB-24SE-MFL-UNV-L940-CD-UPL36

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.1	2.8
10°-20°	1913.8	7.9
20°-30°	2894.3	12.0
30°-40°	3474.6	14.4
40°-50°	3588.7	14.8
50°-60°	3228.7	13.4
60°-70°	2432.2	10.1
70°-80°	1468.6	6.1
80°-90°	725.0	3.0
90°-100°	541.5	2.2
100°-110°	1256.0	5.2
110°-120°	998.0	4.1
120°-130°	481.7	2.0
130°-140°	245.0	1.0
140°-150°	140.3	0.6
150°-160°	79.1	0.3
160°-170°	38.3	0.2
170°-180°	11.7	0.0
0°-30°	5475.2	22.6
0°-40°	8949.8	37.0
0°-60°	15767.3	65.2
0°-90°	20393.0	84.3
90°-120°	2795.5	11.6
90°-150°	3662.4	15.1
90°-180°	3792.0	15.7
0°-180°	24184.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7040	7040	7040	7040	7040	
5°	6995	7014	7006	7033	7025	665
15°	6713	6746	6776	6833	6840	1893
25°	6130	6198	6286	6384	6399	2820
35°	5241	5364	5584	5753	5788	3277
45°	4137	4345	4709	4966	5019	3194
55°	2931	3234	3725	4006	4054	2628
65°	1788	2154	2636	2767	2736	1777
75°	843	1210	1527	1566	1551	899
85°	176	464	765	870	886	203
90°	7	224	492	614	637	16
95°	62	230	471	600	629	208
105°	1296	1352	1395	1144	1068	1233
115°	909	923	1008	1053	1051	919
125°	455	475	538	561	557	427
135°	273	282	310	338	346	216
145°	207	209	215	232	238	131
155°	170	175	176	176	177	77
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



TEST NUMBER: P828209

CATALOG NUMBER: OHB-24SE-MFL-UNV-L940-CD-UPL36

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7040.2	7040.2	7040.2	7040.2	7040.2
2.5°	7019.5	7036.8	7026.4	7048.8	7047.1
5°	6995.4	7014.3	7005.7	7033.3	7024.7
7.5°	6954.1	6974.7	6973.0	7004.0	7000.6
10°	6893.7	6916.2	6923.0	6964.4	6964.4
12.5°	6811.1	6840.4	6857.6	6907.6	6909.2
15°	6712.8	6745.6	6776.5	6833.4	6840.4
17.5°	6594.0	6635.3	6678.4	6743.8	6752.5
20°	6459.5	6506.1	6564.7	6633.6	6643.9
22.5°	6304.5	6359.6	6435.5	6516.4	6528.5
25°	6130.5	6197.7	6285.6	6383.7	6399.2
27.5°	5932.3	6009.9	6128.7	6239.0	6252.8
30°	5716.9	5808.2	5956.4	6087.4	6109.8
32.5°	5489.5	5594.6	5777.2	5923.7	5954.7
35°	5241.4	5363.7	5584.3	5753.1	5787.5
37.5°	4996.7	5131.1	5380.9	5573.9	5615.3
40°	4710.7	4877.8	5163.8	5377.5	5427.5
42.5°	4441.9	4622.8	4946.7	5179.4	5227.6
45°	4136.9	4345.4	4709.0	4965.7	5019.1
47.5°	3850.9	4076.7	4479.8	4745.2	4800.3
50°	3549.4	3797.5	4235.2	4512.6	4569.4
52.5°	3247.9	3514.9	3981.9	4269.6	4323.1
55°	2930.8	3234.1	3725.1	4006.0	4054.2
57.5°	2636.2	2956.6	3461.5	3728.6	3757.9
60°	2345.0	2677.5	3192.7	3427.1	3437.4
62.5°	2060.7	2410.4	2917.1	3103.1	3089.3
65°	1788.4	2153.8	2636.2	2767.2	2736.1
67.5°	1526.6	1903.9	2348.5	2432.9	2391.5
70°	1278.4	1661.0	2069.4	2112.4	2074.5
72.5°	1059.7	1430.1	1786.8	1823.0	1795.4
75°	842.6	1209.6	1526.6	1566.2	1550.7
77.5°	639.2	995.9	1287.1	1338.8	1342.2
80°	460.0	801.2	1078.6	1159.6	1169.9
82.5°	303.3	622.0	904.6	1007.9	1023.4
85°	175.7	463.5	765.0	870.1	885.6
87.5°	75.8	334.3	615.1	709.9	728.9
90°	7.0	223.5	492.5	614.0	637.2
92.5°	26.9	202.1	442.5	562.4	586.6
95°	62.5	230.1	470.8	599.6	629.0
97.5°	335.5	452.9	587.7	726.1	762.5
100°	708.5	806.0	802.0	878.7	909.9
102.5°	1104.1	1187.8	1091.8	1004.2	990.2
105°	1296.3	1352.2	1394.6	1144.5	1067.9



TEST NUMBER: P828209

CATALOG NUMBER: OHB-24SE-MFL-UNV-L940-CD-UPL36

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1065.9	1101.2	1176.0	1217.3	1196.4
115°	909.4	923.0	1007.5	1053.2	1051.4
117.5°	781.5	791.7	867.6	902.0	897.6
120°	659.7	673.6	744.2	766.6	766.5
122.5°	549.3	570.1	633.0	657.1	651.0
125°	454.6	475.4	537.6	560.7	557.2
127.5°	390.3	398.9	455.9	482.5	487.8
130°	337.3	346.0	393.4	424.4	427.9
132.5°	300.7	311.1	347.3	377.6	387.1
135°	272.9	282.4	310.0	338.5	346.3
137.5°	250.3	258.9	278.0	306.4	314.2
140°	232.9	239.8	253.6	277.8	284.7
142.5°	218.9	224.1	232.0	253.5	258.7
145°	206.8	209.4	215.4	231.9	237.9
147.5°	196.3	199.8	204.1	211.9	218.0
150°	186.8	191.1	192.8	196.3	202.3
152.5°	178.1	182.4	184.1	183.3	187.6
155°	170.2	174.6	175.5	175.5	177.2
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1308.4	1360.9	1434.8	1336.9	1194.3
110°	1208.4	1262.8	1335.8	1334.5	1274.4



(END OF REPORT)