

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: P828195

Luminaire Tested: **OHB-24HE-NL-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828195
REPORT IS A COMBINATION OF REPORTS P826039 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-24HE-NL-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

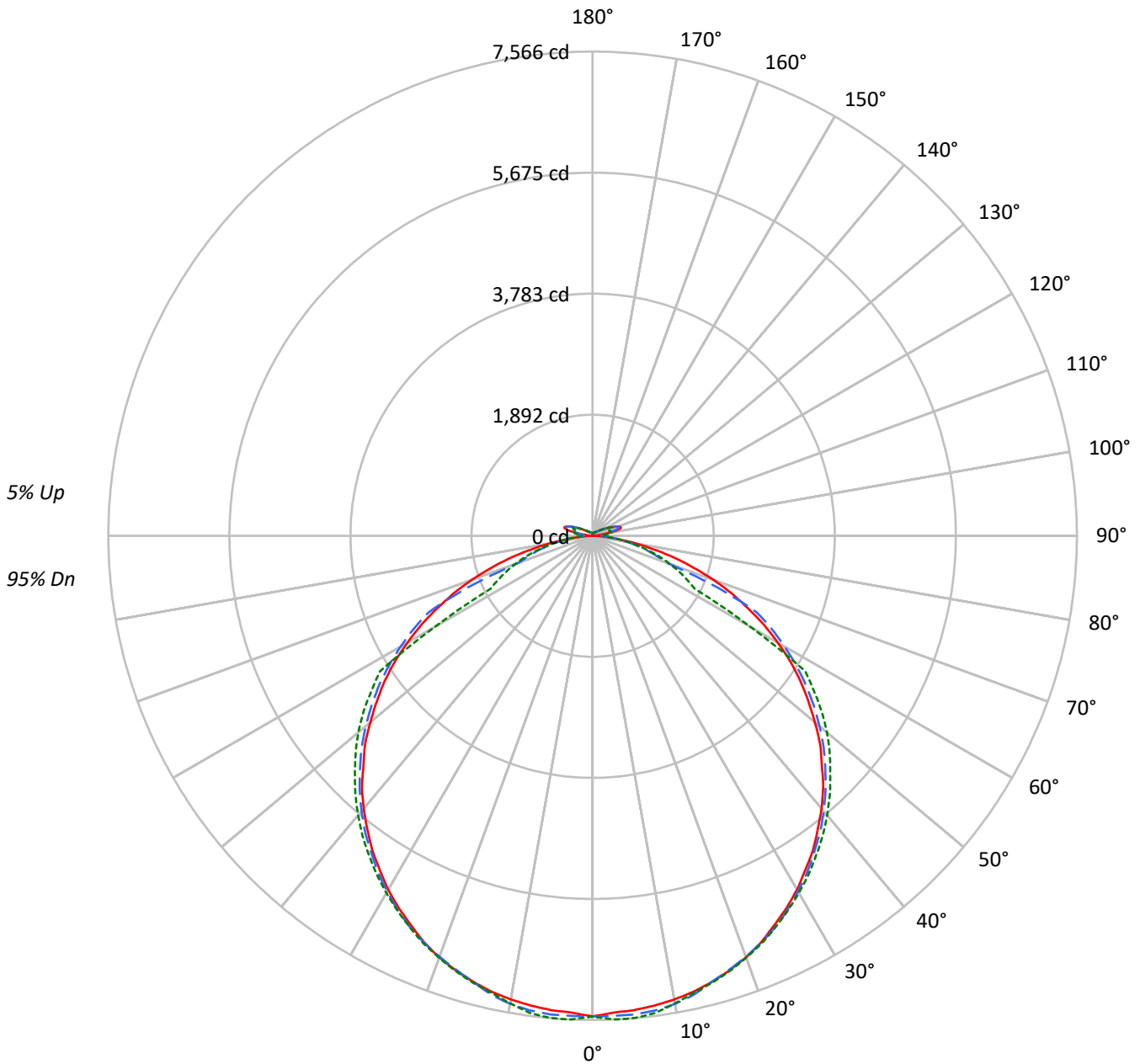
Lumens per Lamp: N/A
Luminaire Lumens: 22169.3 lumens
Efficiency: N/A
Efficacy: 160.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 138.4
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: P828195

CATALOG NUMBER: OHB-24HE-NL-UNV-L940-CD-UPL12

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	95																			
1	108	103	99	96	105	101	97	94	95	92	90	91	88	86	86	84	83	80																			
2	98	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	67																			
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	57																			
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																			
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	40	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	32																			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	41	34	29	39	33	28	38	32	28	26																			
10	53	40	32	27	51	39	31	26	37	31	26	36	30	26	35	29	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23231	23231	23231
5°	22991	23157	23381
10°	22885	23020	23089
15°	22766	22640	22835
20°	22616	22419	22668
25°	22337	22245	22507
30°	22100	21965	22349
35°	21813	21637	22196
40°	21465	21322	22057
45°	20976	20892	21837
50°	20454	20408	21653
55°	19818	19800	21171
60°	18860	18922	16244
65°	17478	17802	10723
70°	15696	9093	10122
75°	13071	8138	9254
80°	9228	6698	7823
85°	3746	5183	6232



TEST NUMBER: P828195

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.5	3.2
10°-20°	2043.0	9.2
20°-30°	3108.6	14.0
30°-40°	3779.7	17.0
40°-50°	3974.1	17.9
50°-60°	3628.9	16.4
60°-70°	2326.3	10.5
70°-80°	1098.9	5.0
80°-90°	307.5	1.4
90°-100°	184.1	0.8
100°-110°	382.0	1.7
110°-120°	315.2	1.4
120°-130°	148.1	0.7
130°-140°	74.1	0.3
140°-150°	43.1	0.2
150°-160°	25.2	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	5865.2	26.5
0°-40°	9644.8	43.5
0°-60°	17247.8	77.8
0°-90°	20980.4	94.6
90°-120°	881.3	4.0
90°-150°	1146.7	5.2
90°-180°	1189.0	5.4
0°-180°	22169.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7510	7510	7510	7510	7510	
5°	7441	7470	7508	7549	7564	708
15°	7215	7269	7214	7224	7230	2037
25°	6714	6725	6749	6759	6754	3098
35°	6002	5966	6034	6108	6091	3751
45°	5062	5053	5138	5260	5250	3913
55°	3967	3936	4070	4205	4216	3538
65°	2673	2673	2828	1622	1628	2650
75°	1320	1346	874	920	924	1392
85°	173	219	273	295	279	255
90°	3	90	142	170	172	9
95°	26	89	162	218	234	74
105°	456	459	400	290	267	432
115°	320	322	327	320	307	318
125°	153	159	163	161	162	143
135°	89	91	95	96	96	71
145°	65	67	68	69	70	41
155°	52	53	54	55	55	24
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



TEST NUMBER: P828195

CATALOG NUMBER: OHB-24HE-NL-UNV-L940-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7510.5	7510.5	7510.5	7510.5	7510.5
2.5°	7457.7	7482.9	7510.5	7546.1	7565.7
5°	7440.6	7469.7	7507.8	7548.8	7564.5
7.5°	7403.8	7444.5	7481.5	7510.5	7519.7
10°	7357.6	7406.4	7427.5	7424.9	7418.3
12.5°	7295.7	7347.2	7340.5	7310.1	7315.4
15°	7215.3	7269.3	7214.0	7224.5	7229.8
17.5°	7120.4	7173.2	7108.6	7129.6	7131.0
20°	7009.7	7049.3	6999.1	7016.3	7016.3
22.5°	6876.6	6904.3	6883.2	6895.0	6897.7
25°	6714.5	6725.0	6748.7	6759.3	6754.0
27.5°	6559.1	6545.9	6592.0	6617.0	6603.8
30°	6386.3	6365.3	6419.3	6460.1	6444.4
32.5°	6188.6	6175.6	6237.5	6286.2	6277.0
35°	6001.5	5966.0	6034.5	6108.3	6091.2
37.5°	5780.2	5759.0	5836.8	5914.7	5905.4
40°	5564.0	5528.4	5616.7	5708.9	5699.7
42.5°	5332.1	5289.8	5386.1	5496.9	5486.3
45°	5061.8	5052.6	5138.3	5259.5	5250.3
47.5°	4822.1	4775.9	4895.8	5013.1	5023.7
50°	4532.1	4515.0	4624.4	4766.7	4777.2
52.5°	4248.8	4237.0	4351.5	4495.2	4513.6
55°	3966.7	3936.4	4069.5	4205.3	4215.9
57.5°	3665.1	3633.4	3769.1	3916.8	3939.1
60°	3342.1	3311.8	3460.6	3597.8	2861.1
62.5°	3019.2	2998.1	3153.7	2233.8	1800.3
65°	2672.6	2672.6	2828.0	1622.3	1627.6
67.5°	2348.5	2327.4	2108.7	1457.4	1457.4
70°	2000.5	2008.5	1215.0	1277.0	1278.3
72.5°	1651.2	1680.3	1049.1	1099.1	1101.7
75°	1320.5	1345.6	873.7	919.9	923.8
77.5°	970.0	745.9	702.3	738.1	739.4
80°	681.3	470.5	537.8	571.9	568.0
82.5°	397.9	329.4	394.0	419.2	417.8
85°	172.6	218.8	272.7	295.3	279.4
87.5°	55.2	135.7	170.0	183.2	181.8
90°	2.6	89.5	142.2	170.5	171.5
92.5°	7.8	77.9	138.5	178.8	184.4
95°	25.6	88.7	161.8	218.2	233.9
97.5°	120.0	155.5	206.3	262.7	274.0
100°	242.6	280.6	255.6	290.1	295.9
102.5°	388.2	394.9	299.7	290.8	287.9
105°	456.0	458.8	400.1	289.7	266.7



TEST NUMBER: P828195

CATALOG NUMBER: OHB-24HE-NL-UNV-L940-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	371.3	376.6	377.9	360.1	336.0
115°	319.5	322.2	327.0	320.5	307.3
117.5°	262.6	266.0	268.7	266.0	264.3
120°	220.0	225.2	226.9	223.4	223.4
122.5°	185.2	189.5	192.1	189.5	190.4
125°	153.0	159.1	162.6	160.8	161.7
127.5°	127.8	133.0	139.1	138.2	138.2
130°	111.3	114.8	119.1	120.0	120.0
132.5°	99.1	101.7	105.2	106.1	106.9
135°	88.7	91.3	94.8	95.6	95.6
137.5°	81.7	83.5	86.1	86.9	87.8
140°	74.8	77.4	79.1	80.0	80.0
142.5°	69.6	71.3	73.0	73.9	74.8
145°	65.2	66.9	67.8	68.7	69.6
147.5°	60.9	62.6	64.3	64.3	65.2
150°	58.3	59.1	60.0	60.9	60.9
152.5°	54.8	55.6	56.5	57.4	57.4
155°	52.2	53.0	53.9	54.8	54.8
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	458.6	467.0	436.6	336.1	272.6
110°	421.8	431.8	416.6	375.8	322.0



(END OF REPORT)