

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: P843011

Luminaire Tested: **24CZ2-35-HRP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-HRP-UNV-B40
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

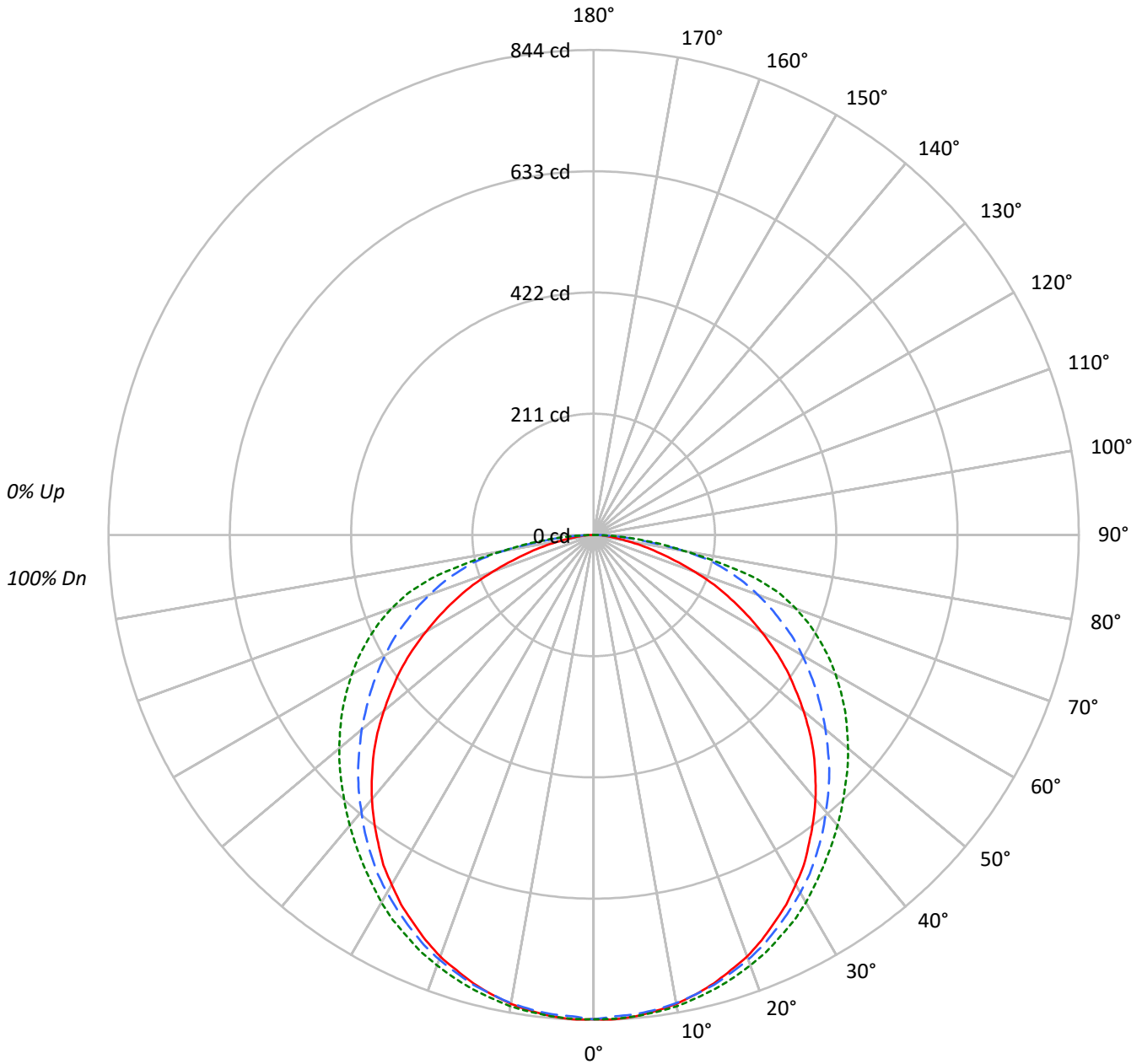
Lumens per Lamp: N/A
Luminaire Lumens: 2598.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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: P843011

CATALOG NUMBER: 24CZ2-35-HRP-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P843011

CATALOG NUMBER: 24CZ2-35-HRP-UNV-B40

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1190	1190	1190
5°	1191	1186	1191
10°	1188	1186	1194
15°	1181	1184	1195
20°	1173	1181	1197
25°	1159	1176	1199
30°	1145	1172	1203
35°	1126	1166	1205
40°	1106	1158	1216
45°	1081	1157	1235
50°	1046	1156	1268
55°	1009	1164	1314
60°	952	1182	1372
65°	879	1210	1449
70°	768	1252	1544
75°	623	1316	1596
80°	459	1291	1291
85°	353	952	1074



TEST NUMBER: P843011

CATALOG NUMBER: 24CZ2-35-HRP-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.1
10°-20°	229.3	8.8
20°-30°	349.1	13.4
30°-40°	423.9	16.3
40°-50°	447.8	17.2
50°-60°	422.6	16.3
60°-70°	351.3	13.5
70°-80°	231.2	8.9
80°-90°	63.0	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	658.2	25.3
0°-40°	1082.1	41.7
0°-60°	1952.5	75.2
0°-90°	2598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	841	841	837	841	841	80
15°	808	809	810	818	818	228
25°	744	748	755	768	770	343
35°	654	661	677	694	699	409
45°	542	553	580	608	619	417
55°	410	428	473	518	534	365
65°	263	294	362	416	434	260
75°	114	166	241	286	293	123
85°	22	48	59	65	66	27
90°	0	0	0	0	0	



TEST NUMBER: P843011

CATALOG NUMBER: 24CZ2-35-HRP-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	843.0	843.0	843.0	843.0	843.0
2.5°	844.0	843.0	838.5	843.0	843.0
5°	840.8	840.8	837.4	840.8	840.8
7.5°	835.3	835.3	833.1	837.4	837.4
10°	828.8	828.8	827.6	833.1	833.1
12.5°	819.0	820.1	819.0	825.5	825.5
15°	808.1	809.2	810.3	817.9	817.9
17.5°	794.0	796.1	798.3	807.0	808.1
20°	780.9	782.0	786.3	796.1	797.2
22.5°	763.5	766.8	772.2	782.0	785.3
25°	744.0	748.3	754.9	767.9	770.1
27.5°	725.4	728.8	737.4	751.5	755.9
30°	702.7	708.0	718.9	733.1	738.4
32.5°	680.9	686.3	699.3	714.6	718.9
35°	653.7	661.2	676.6	693.9	699.3
37.5°	627.6	635.1	653.7	673.2	679.8
40°	600.3	609.0	628.7	651.6	660.2
42.5°	571.0	583.0	604.7	629.8	639.6
45°	541.7	552.6	579.7	608.0	618.9
47.5°	510.1	523.1	552.6	586.2	599.2
50°	476.4	492.7	526.5	563.4	577.6
52.5°	442.7	461.1	499.2	540.6	555.8
55°	410.0	427.5	473.1	517.7	534.0
57.5°	374.2	395.9	445.9	493.8	510.1
60°	337.2	361.2	418.7	468.8	486.1
62.5°	300.2	327.4	392.6	442.7	461.1
65°	263.2	293.6	362.2	415.5	433.9
67.5°	227.3	261.1	333.8	387.2	405.7
70°	186.0	228.4	303.4	355.6	374.2
72.5°	148.0	196.9	274.1	323.1	339.4
75°	114.2	166.4	241.4	286.1	292.6
77.5°	83.8	136.0	207.7	223.0	224.1
80°	56.5	108.8	158.9	156.6	158.9
82.5°	37.0	81.5	100.1	112.0	113.1
85°	21.8	47.9	58.8	65.2	66.3
87.5°	10.9	16.3	20.7	21.8	23.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)