

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: P843075

Luminaire Tested: **24CZ2-45-RDP-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45-RDP-UNV-B50
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

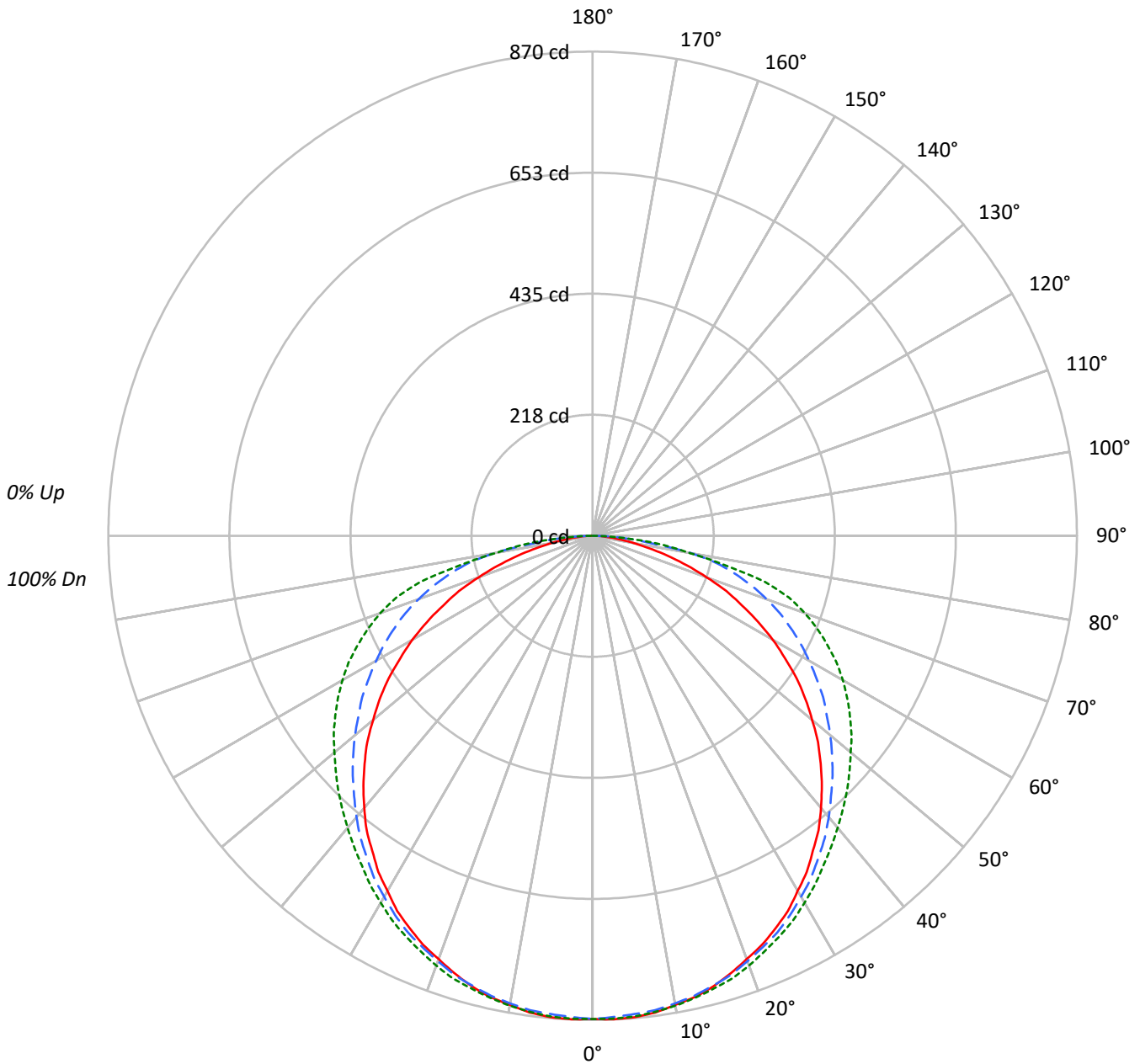
Lumens per Lamp: N/A
Luminaire Lumens: 2761.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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				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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1225	1225	1225
5°	1230	1222	1228
10°	1227	1223	1229
15°	1225	1223	1231
20°	1216	1222	1234
25°	1211	1224	1237
30°	1201	1221	1241
35°	1189	1217	1246
40°	1176	1216	1262
45°	1156	1217	1290
50°	1131	1224	1329
55°	1102	1243	1389
60°	1055	1268	1465
65°	988	1312	1555
70°	899	1373	1673
75°	762	1449	1748
80°	601	1457	1413
85°	444	1109	1240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	3.0
10°-20°	237.0	8.6
20°-30°	362.5	13.1
30°-40°	443.1	16.0
40°-50°	472.3	17.1
50°-60°	451.6	16.4
60°-70°	382.5	13.9
70°-80°	257.1	9.3
80°-90°	72.5	2.6
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°	681.9	24.7
0°-40°	1125.0	40.7
0°-60°	2048.9	74.2
0°-90°	2761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	868	867	863	867	867	82
15°	838	838	837	844	842	236
25°	778	781	786	793	794	359
35°	690	696	707	720	723	432
45°	579	589	610	635	646	447
55°	448	464	505	545	564	399
65°	296	326	393	445	466	294
75°	140	190	266	311	320	150
85°	27	56	68	74	77	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	868.3	868.3	868.3	868.3	868.3
2.5°	869.6	869.6	865.5	868.3	868.3
5°	868.3	866.9	862.8	866.9	866.9
7.5°	864.1	862.8	860.0	864.1	862.8
10°	855.9	855.9	853.2	857.4	857.4
12.5°	849.1	847.8	846.3	851.8	850.4
15°	838.2	838.2	836.7	843.7	842.2
17.5°	824.5	825.8	827.1	832.6	834.1
20°	809.3	812.1	813.4	821.7	821.7
22.5°	795.6	797.1	799.7	808.0	808.0
25°	777.9	780.6	786.0	793.0	794.3
27.5°	760.1	761.4	768.4	777.9	779.3
30°	736.8	740.9	749.0	760.1	761.4
32.5°	716.2	720.3	729.9	740.9	743.6
35°	690.3	695.7	706.6	720.3	723.1
37.5°	667.0	671.1	684.8	699.8	704.0
40°	638.2	646.3	660.0	677.9	684.8
42.5°	609.5	617.6	634.1	657.4	665.6
45°	579.3	588.9	609.5	635.4	646.3
47.5°	549.2	560.1	583.4	613.5	625.9
50°	514.9	528.6	557.3	591.7	605.4
52.5°	482.0	498.5	530.1	568.4	586.2
55°	447.8	464.2	505.3	545.1	564.3
57.5°	409.5	431.3	476.6	521.8	542.3
60°	373.9	394.3	449.2	498.5	519.0
62.5°	335.5	363.0	421.7	473.8	494.4
65°	295.8	326.0	393.0	445.0	465.7
67.5°	260.2	293.1	364.3	416.3	436.9
70°	217.8	258.8	332.7	384.8	405.4
72.5°	178.0	223.3	299.9	350.6	369.7
75°	139.7	190.4	265.7	310.9	320.5
77.5°	104.0	157.5	230.0	249.2	242.4
80°	74.0	126.0	179.3	169.8	173.9
82.5°	47.9	95.9	111.0	126.0	130.1
85°	27.4	56.1	68.5	74.0	76.6
87.5°	12.4	20.5	27.4	27.4	26.1
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)