

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: P843043

Luminaire Tested: **24CZ2-40-RDP-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843043
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: 24CZ2-40-RDP-UNV-B35
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

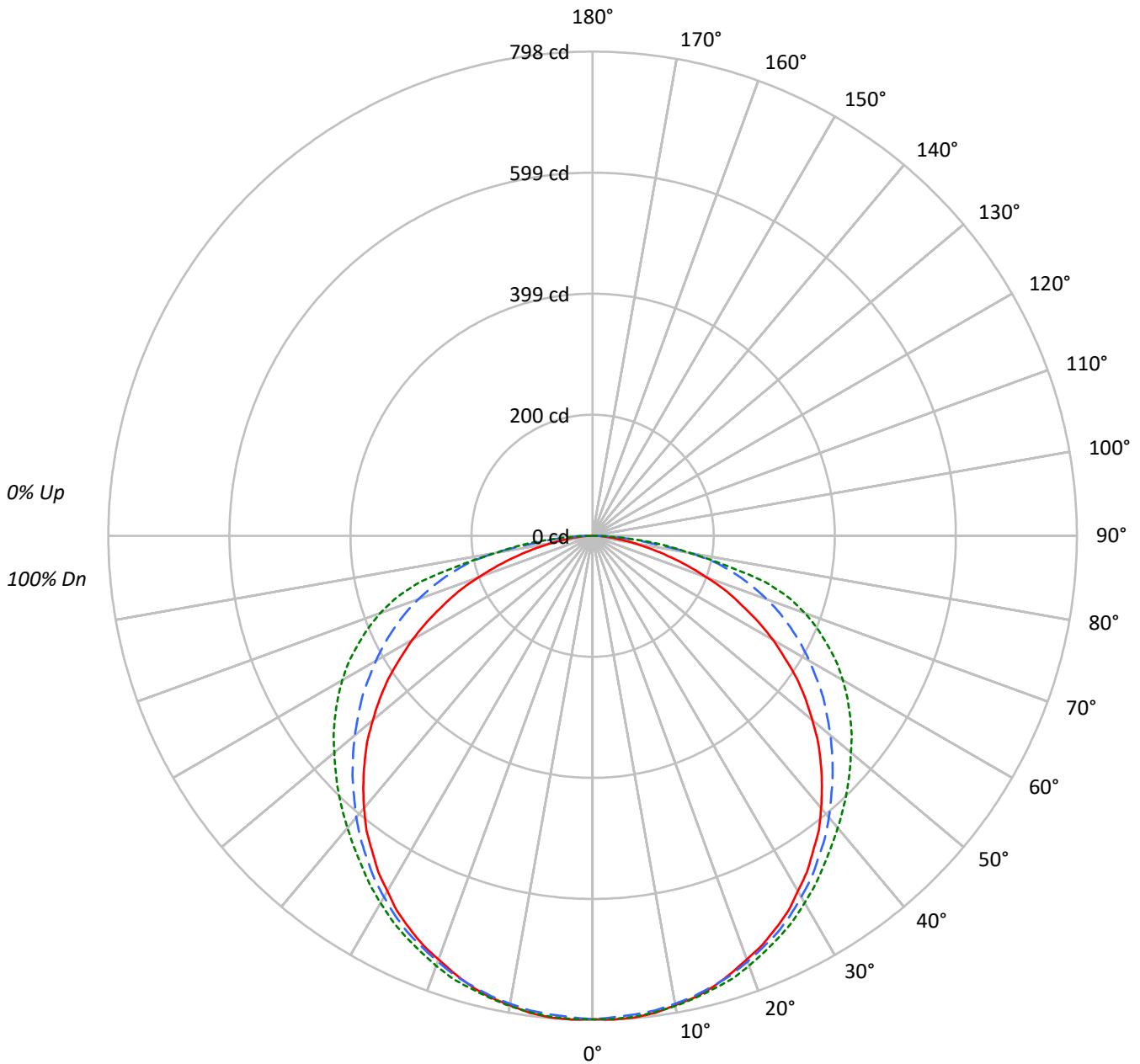
Lumens per Lamp: N/A
Luminaire Lumens: 2534.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82	82	82	82	82	82		
	2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67	67	67	67	67	67		
	3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56	56	56	56	56	56		
	4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47	47	47	47	47	47		
	5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40	40	40	40	40	40		
	6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35	35	35	35	35	35		
	7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31	31	31	31	31	31		
	8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27	27	27	27	27	27		
	9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24	24	24	24	24	24		
	10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22	22	22	22	22	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1125	1125	1125
5°	1129	1122	1127
10°	1126	1122	1128
15°	1124	1122	1129
20°	1116	1121	1133
25°	1112	1123	1135
30°	1102	1120	1139
35°	1091	1117	1144
40°	1079	1116	1158
45°	1061	1117	1184
50°	1037	1123	1220
55°	1011	1141	1274
60°	968	1164	1344
65°	906	1205	1427
70°	825	1260	1535
75°	699	1330	1604
80°	552	1338	1297
85°	408	1019	1138



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.0
10°-20°	217.5	8.6
20°-30°	332.7	13.1
30°-40°	406.7	16.0
40°-50°	433.4	17.1
50°-60°	414.4	16.4
60°-70°	351.1	13.9
70°-80°	236.0	9.3
80°-90°	66.6	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°	625.8	24.7
0°-40°	1032.5	40.7
0°-60°	1880.4	74.2
0°-90°	2534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	797	796	792	796	796	76
15°	769	769	768	774	773	217
25°	714	716	721	728	729	329
35°	634	638	648	661	664	397
45°	532	540	559	583	593	410
55°	411	426	464	500	518	366
65°	271	299	361	408	427	270
75°	128	175	244	285	294	137
85°	25	52	63	68	70	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.9	796.9	796.9	796.9	796.9
2.5°	798.1	798.1	794.3	796.9	796.9
5°	796.9	795.7	791.9	795.7	795.7
7.5°	793.1	791.9	789.3	793.1	791.9
10°	785.5	785.5	783.1	786.9	786.9
12.5°	779.3	778.1	776.7	781.7	780.5
15°	769.3	769.3	767.9	774.3	772.9
17.5°	756.7	757.9	759.1	764.1	765.5
20°	742.8	745.3	746.6	754.1	754.1
22.5°	730.2	731.6	734.0	741.6	741.6
25°	714.0	716.4	721.4	727.8	729.0
27.5°	697.6	698.8	705.2	714.0	715.2
30°	676.2	680.0	687.5	697.6	698.8
32.5°	657.3	661.1	669.9	680.0	682.5
35°	633.5	638.5	648.5	661.1	663.7
37.5°	612.1	615.9	628.5	642.3	646.1
40°	585.8	593.2	605.8	622.1	628.5
42.5°	559.4	566.8	582.0	603.3	610.9
45°	531.7	540.4	559.4	583.2	593.2
47.5°	504.1	514.1	535.4	563.0	574.4
50°	472.5	485.1	511.5	543.0	555.6
52.5°	442.4	457.5	486.5	521.7	538.0
55°	411.0	426.0	463.8	500.3	517.9
57.5°	375.9	395.9	437.4	478.9	497.7
60°	343.1	361.9	412.2	457.5	476.3
62.5°	308.0	333.1	387.1	434.8	453.8
65°	271.4	299.2	360.7	408.4	427.4
67.5°	238.9	269.0	334.3	382.1	401.0
70°	199.9	237.5	305.4	353.1	372.1
72.5°	163.4	204.9	275.2	321.8	339.3
75°	128.2	174.7	243.9	285.4	294.2
77.5°	95.5	144.6	211.1	228.7	222.5
80°	67.9	115.6	164.6	155.8	159.6
82.5°	44.0	88.1	101.8	115.6	119.4
85°	25.2	51.5	62.9	67.9	70.3
87.5°	11.4	18.8	25.2	25.2	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)