

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: P881216

Luminaire Tested: **24CZ2-50VHE-RDP-UNV-B40**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P881216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50VHE-RDP-UNV-B40
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

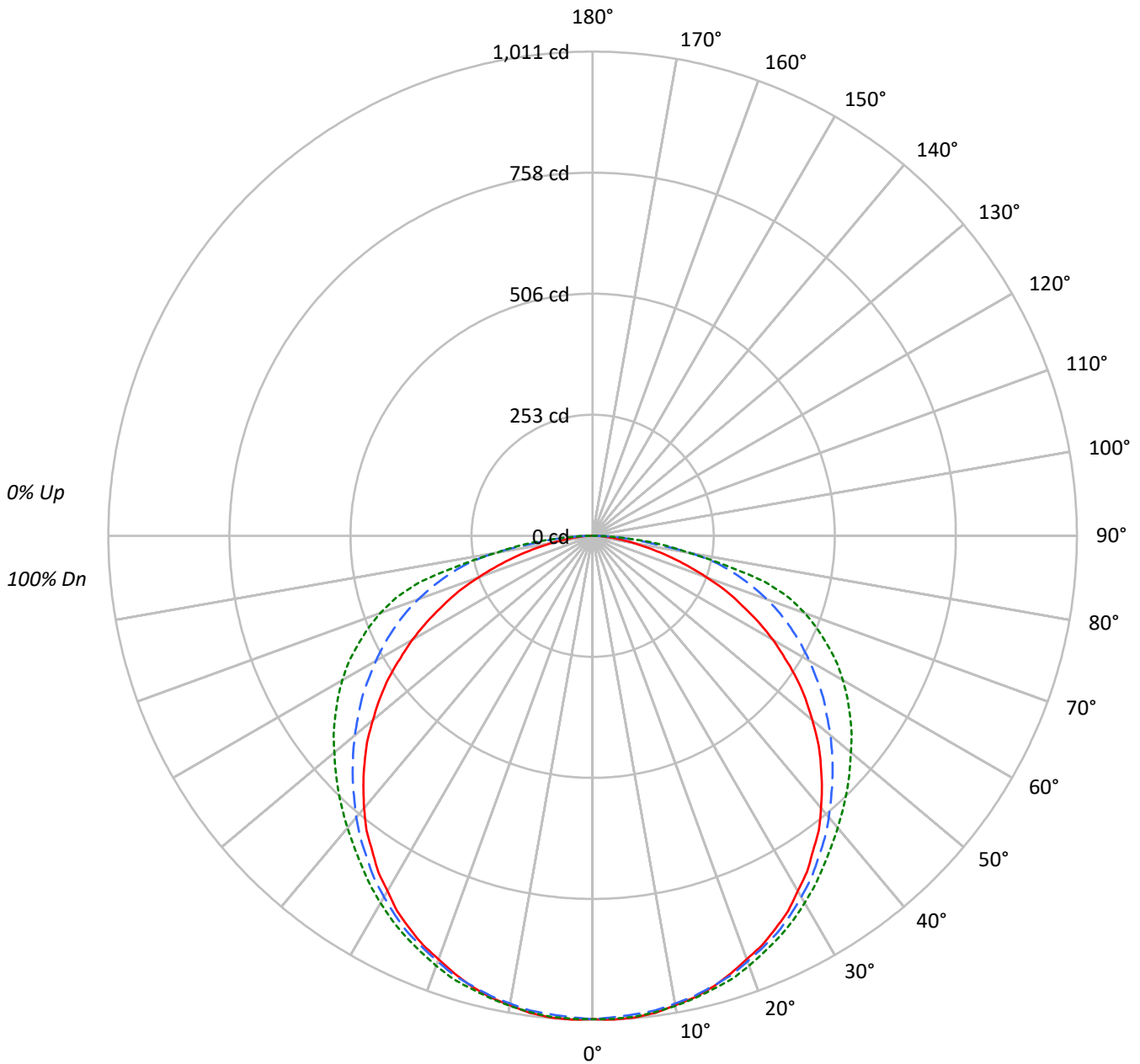
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3210.0 lumens
Efficiency: N/A
Efficacy: 84.5 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): 38
Input Voltage (V): NR
Input Current (Ain): 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°	1425	1425	1425
5°	1430	1421	1428
10°	1426	1422	1429
15°	1424	1421	1431
20°	1413	1421	1435
25°	1408	1423	1438
30°	1396	1419	1443
35°	1382	1415	1448
40°	1367	1414	1467
45°	1344	1414	1500
50°	1314	1423	1545
55°	1281	1446	1614
60°	1227	1474	1703
65°	1148	1526	1808
70°	1044	1597	1945
75°	885	1684	2032
80°	699	1695	1643
85°	517	1289	1444



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	3.0
10°-20°	275.6	8.6
20°-30°	421.4	13.1
30°-40°	515.2	16.0
40°-50°	549.1	17.1
50°-60°	525.0	16.4
60°-70°	444.7	13.9
70°-80°	298.9	9.3
80°-90°	84.3	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°	792.8	24.7
0°-40°	1307.9	40.7
0°-60°	2382.0	74.2
0°-90°	3210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1010	1008	1003	1008	1008	96
15°	974	974	973	981	979	275
25°	904	908	914	922	924	417
35°	802	809	822	837	841	503
45°	674	685	708	739	751	519
55°	520	540	588	634	656	464
65°	344	379	457	517	541	341
75°	162	221	309	362	373	174
85°	32	65	80	86	89	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1011.1	1011.1	1006.2	1009.5	1009.5
5°	1009.5	1008.0	1003.1	1008.0	1008.0
7.5°	1004.7	1003.1	999.9	1004.7	1003.1
10°	995.2	995.2	991.9	996.8	996.8
12.5°	987.1	985.6	984.0	990.4	988.8
15°	974.4	974.4	972.8	980.7	979.2
17.5°	958.5	960.1	961.8	968.2	969.7
20°	940.9	944.2	945.8	955.4	955.4
22.5°	925.1	926.6	929.9	939.4	939.4
25°	904.4	907.5	913.9	921.8	923.5
27.5°	883.6	885.3	893.2	904.4	906.0
30°	856.5	861.3	871.0	883.6	885.3
32.5°	832.7	837.4	848.6	861.3	864.6
35°	802.4	808.8	821.5	837.4	840.7
37.5°	775.4	780.0	796.0	813.6	818.3
40°	742.1	751.4	767.4	788.1	796.0
42.5°	708.5	718.1	737.3	764.2	773.7
45°	673.5	684.7	708.5	738.8	751.4
47.5°	638.5	651.3	678.3	713.3	727.6
50°	598.6	614.6	648.0	687.8	703.8
52.5°	560.5	579.6	616.2	660.8	681.5
55°	520.5	539.7	587.5	633.7	656.0
57.5°	476.1	501.4	554.1	606.7	630.5
60°	434.7	458.5	522.2	579.6	603.4
62.5°	390.1	422.0	490.4	550.9	574.8
65°	343.9	379.1	456.9	517.4	541.4
67.5°	302.6	340.8	423.5	484.0	507.8
70°	253.1	300.8	387.0	447.3	471.3
72.5°	206.9	259.5	348.7	407.7	429.9
75°	162.3	221.2	308.9	361.5	372.7
77.5°	121.1	183.0	267.4	289.8	281.9
80°	86.0	146.6	208.5	197.3	202.1
82.5°	55.8	111.5	129.0	146.6	151.1
85°	31.9	65.3	79.6	86.0	89.2
87.5°	14.3	23.9	31.9	31.9	30.3
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)