

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: P881033

Luminaire Tested: **24CZ2-75VHE-RDP-B2750-W2D-3000K**

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: P881033
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: 24CZ2-75VHE-RDP-B2750-W2D-3000K
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

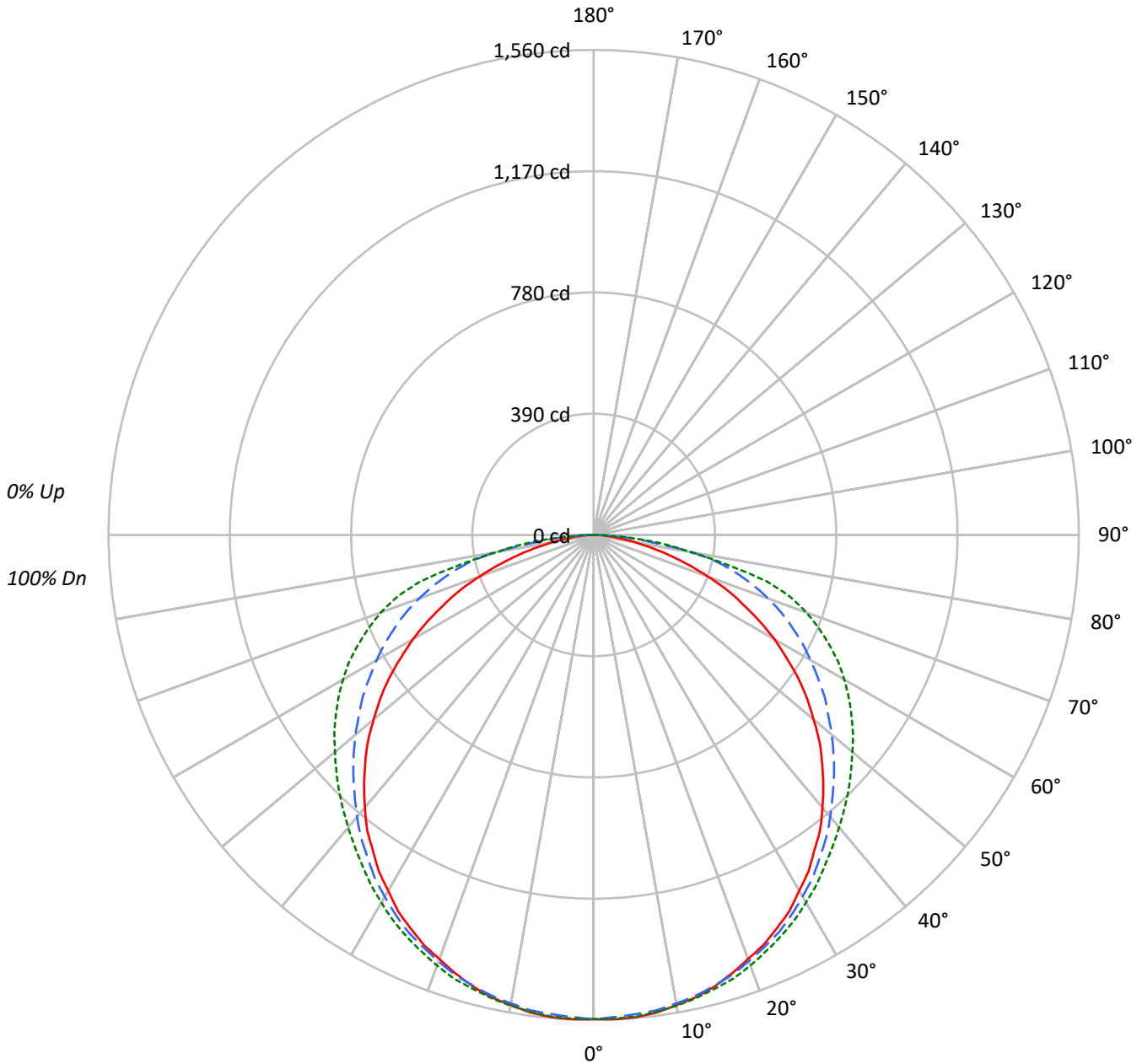
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4952.0 lumens
Efficiency: N/A
Efficacy: 82.5 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): 60
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

TEST NUMBER: P881033
CATALOG NUMBER: 24CZ2-75VHE-RDP-B2750-W2D-3000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82				82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67				67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47				47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40				40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35				35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27				27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24				24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2198	2198	2198
5°	2206	2192	2203
10°	2200	2193	2204
15°	2196	2193	2207
20°	2180	2191	2214
25°	2173	2195	2219
30°	2153	2190	2226
35°	2133	2184	2234
40°	2109	2181	2262
45°	2074	2182	2314
50°	2027	2195	2384
55°	1976	2230	2490
60°	1893	2274	2628
65°	1772	2354	2789
70°	1611	2464	3000
75°	1365	2599	3135
80°	1078	2614	2534
85°	797	1989	2230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	3.0
10°-20°	425.1	8.6
20°-30°	650.1	13.1
30°-40°	794.7	16.0
40°-50°	847.1	17.1
50°-60°	809.9	16.4
60°-70°	686.1	13.9
70°-80°	461.1	9.3
80°-90°	130.1	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°	1223.0	24.7
0°-40°	2017.7	40.7
0°-60°	3674.7	74.2
0°-90°	4952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1557	1555	1548	1555	1555	148
15°	1503	1503	1501	1513	1511	424
25°	1395	1400	1410	1422	1425	643
35°	1238	1248	1267	1292	1297	775
45°	1039	1056	1093	1140	1159	801
55°	803	832	906	978	1012	715
65°	531	585	705	798	835	527
75°	250	341	477	558	575	268
85°	49	101	123	133	138	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1557.4	1557.4	1557.4	1557.4	1557.4
2.5°	1559.8	1559.8	1552.3	1557.4	1557.4
5°	1557.4	1555.0	1547.5	1555.0	1555.0
7.5°	1549.9	1547.5	1542.5	1549.9	1547.5
10°	1535.3	1535.3	1530.2	1537.7	1537.7
12.5°	1522.8	1520.4	1518.0	1527.9	1525.5
15°	1503.1	1503.1	1500.7	1513.0	1510.6
17.5°	1478.7	1481.1	1483.7	1493.6	1496.0
20°	1451.6	1456.6	1459.0	1473.9	1473.9
22.5°	1427.1	1429.5	1434.5	1449.2	1449.2
25°	1395.2	1400.0	1409.8	1422.1	1424.7
27.5°	1363.1	1365.7	1377.9	1395.2	1397.6
30°	1321.3	1328.8	1343.6	1363.1	1365.7
32.5°	1284.6	1291.8	1309.1	1328.8	1333.8
35°	1237.9	1247.7	1267.4	1291.8	1296.9
37.5°	1196.1	1203.3	1228.0	1255.1	1262.3
40°	1144.8	1159.2	1183.9	1215.8	1228.0
42.5°	1093.0	1107.9	1137.4	1178.9	1193.5
45°	1039.0	1056.3	1093.0	1139.8	1159.2
47.5°	985.1	1004.7	1046.5	1100.4	1122.5
50°	923.4	948.1	999.7	1061.1	1085.8
52.5°	864.7	894.2	950.5	1019.4	1051.3
55°	803.0	832.5	906.4	977.6	1011.9
57.5°	734.4	773.5	854.8	935.9	972.6
60°	670.6	707.3	805.7	894.2	930.9
62.5°	601.8	651.0	756.5	849.8	886.7
65°	530.6	584.8	704.9	798.2	835.2
67.5°	466.7	525.8	653.4	746.7	783.4
70°	390.5	464.1	597.0	690.1	727.0
72.5°	319.2	400.3	538.0	628.9	663.2
75°	250.4	341.3	476.6	557.7	574.9
77.5°	186.8	282.3	412.5	447.1	434.8
80°	132.6	226.2	321.6	304.4	311.8
82.5°	86.1	172.0	199.1	226.2	233.1
85°	49.2	100.7	122.8	132.6	137.7
87.5°	22.1	36.9	49.2	49.2	46.8
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)