

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: P276849

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-70HE-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4118.3 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

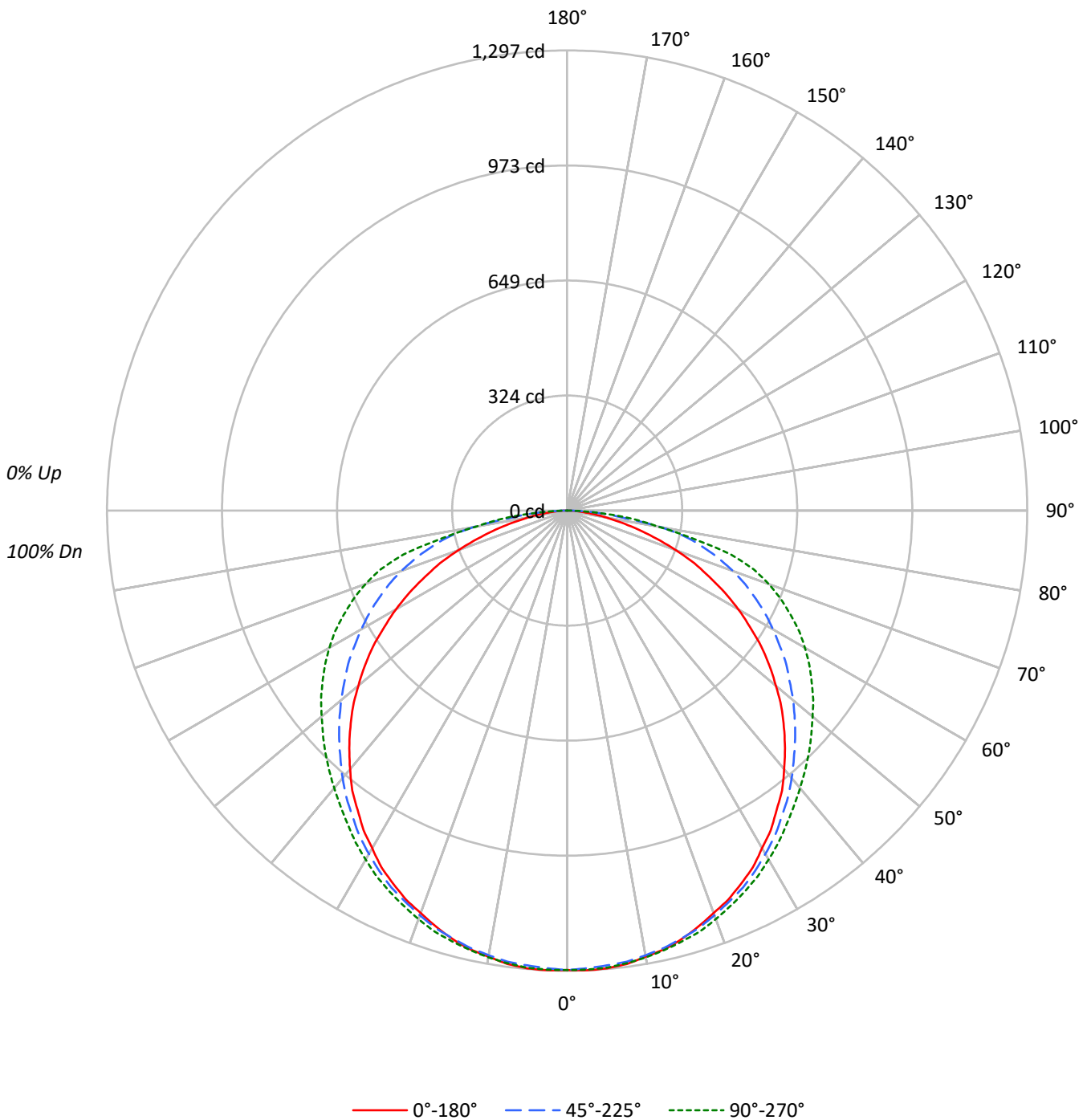
Input Watts (W): 55.056186
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276849

CATALOG NUMBER: 24CZ2-70HE-RDP-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P276849

CATALOG NUMBER: 24CZ2-70HE-RDP-UNV-L93050-W2A1-U-4000K

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	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°	1743	1743	1743
5°	1749	1738	1746
10°	1744	1739	1747
15°	1741	1739	1750
20°	1729	1737	1755
25°	1723	1741	1759
30°	1707	1736	1765
35°	1691	1731	1772
40°	1672	1729	1794
45°	1644	1730	1835
50°	1608	1740	1890
55°	1567	1768	1974
60°	1501	1803	2083
65°	1405	1867	2211
70°	1278	1953	2378
75°	1083	2060	2485
80°	855	2073	2010
85°	631	1576	1766



TEST NUMBER: P276849

CATALOG NUMBER: 24CZ2-70HE-RDP-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	3.0
10°-20°	353.6	8.6
20°-30°	540.7	13.1
30°-40°	661.0	16.0
40°-50°	704.5	17.1
50°-60°	673.6	16.4
60°-70°	570.6	13.9
70°-80°	383.5	9.3
80°-90°	108.2	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°	1017.1	24.7
0°-40°	1678.1	40.7
0°-60°	3056.1	74.2
0°-90°	4118.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4118.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1295	1293	1287	1293	1293	123
15°	1250	1250	1248	1258	1256	352
25°	1160	1164	1172	1183	1185	535
35°	1030	1038	1054	1074	1079	645
45°	864	878	909	948	964	666
55°	668	692	754	813	842	595
65°	441	486	586	664	694	438
75°	208	284	396	464	478	223
85°	41	84	102	110	114	51
90°	0	0	0	0	0	



TEST NUMBER: P276849

CATALOG NUMBER: 24CZ2-70HE-RDP-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.1	1295.1	1295.1	1295.1	1295.1
2.5°	1297.1	1297.1	1291.0	1295.1	1295.1
5°	1295.1	1293.0	1286.9	1293.0	1293.0
7.5°	1289.0	1286.9	1282.8	1289.0	1286.9
10°	1276.7	1276.7	1272.6	1278.7	1278.7
12.5°	1266.5	1264.4	1262.4	1270.6	1268.5
15°	1250.1	1250.1	1248.1	1258.3	1256.3
17.5°	1229.7	1231.8	1233.8	1242.0	1244.0
20°	1207.2	1211.3	1213.4	1225.6	1225.6
22.5°	1186.8	1188.9	1193.0	1205.2	1205.2
25°	1160.3	1164.4	1172.5	1182.7	1184.8
27.5°	1133.7	1135.8	1146.0	1160.3	1162.3
30°	1099.0	1105.1	1117.4	1133.7	1135.8
32.5°	1068.3	1074.5	1088.8	1105.1	1109.2
35°	1029.5	1037.7	1054.0	1074.5	1078.6
37.5°	994.8	1000.9	1021.4	1043.8	1050.0
40°	951.9	964.2	984.6	1011.1	1021.4
42.5°	909.0	921.3	945.8	980.5	992.8
45°	864.1	878.4	909.0	947.8	964.2
47.5°	819.1	835.5	870.2	915.1	933.5
50°	768.1	788.5	831.4	882.5	902.9
52.5°	719.0	743.6	790.5	847.7	874.3
55°	668.0	692.5	753.8	813.0	841.6
57.5°	610.8	643.5	710.9	778.3	808.9
60°	557.7	588.3	670.0	743.6	774.2
62.5°	500.5	541.3	629.2	706.8	737.4
65°	441.2	486.2	586.3	663.9	694.5
67.5°	388.1	437.1	543.4	621.0	651.6
70°	324.8	386.1	496.4	574.0	604.6
72.5°	265.6	333.0	447.4	522.9	551.5
75°	208.4	283.9	396.3	463.7	478.0
77.5°	155.2	234.9	343.2	371.8	361.6
80°	110.3	187.9	267.6	253.3	259.4
82.5°	71.5	143.0	165.5	187.9	194.1
85°	40.9	83.8	102.1	110.3	114.4
87.5°	18.4	30.6	40.9	40.9	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)