

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: P277096

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277096
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-L92765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4229.1 lumens
Efficiency: N/A
Efficacy: 76.4 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

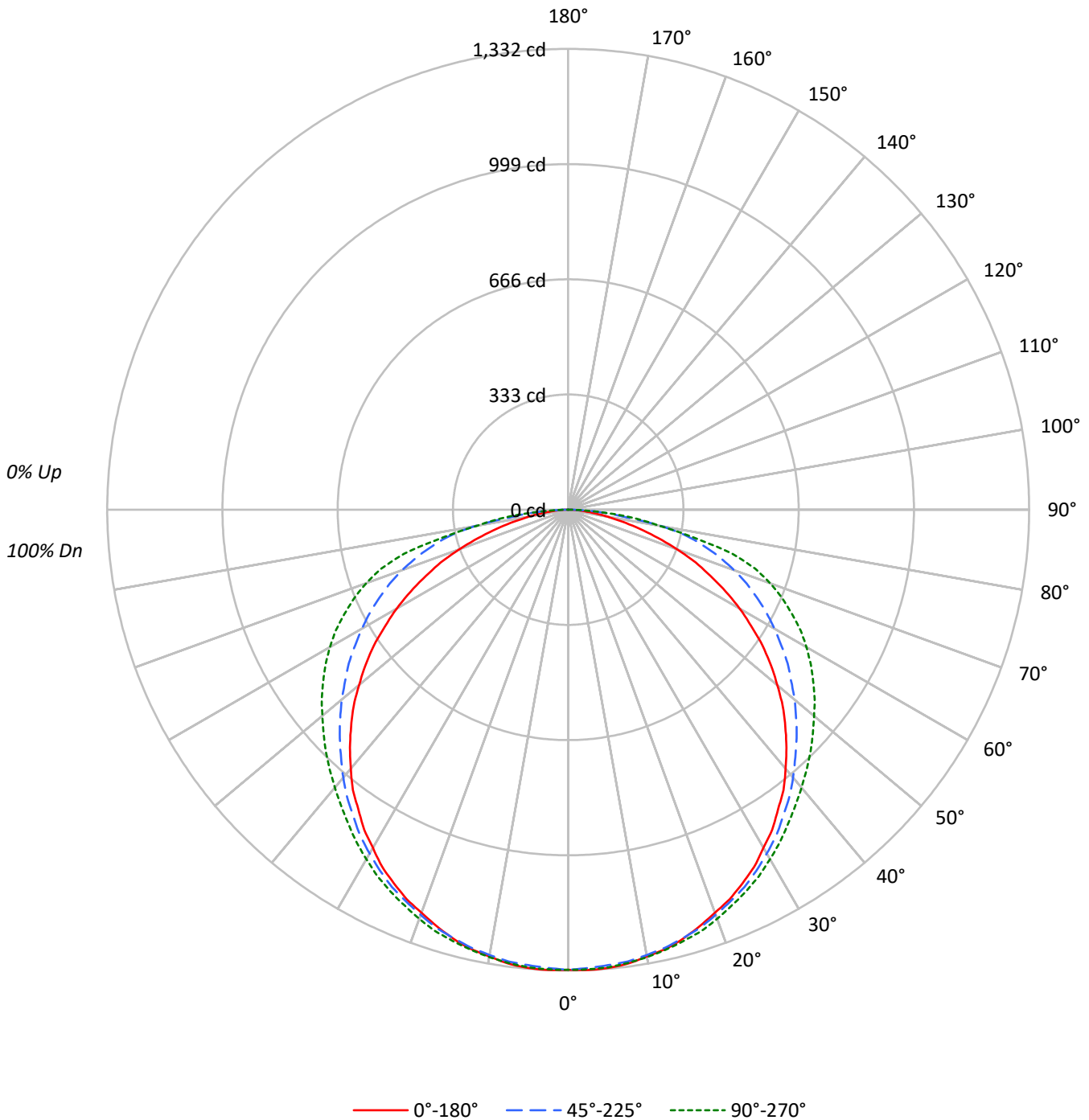
Input Watts (W): 55.335
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277096

CATALOG NUMBER: 24CZ2-70HE-RDP-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P277096

CATALOG NUMBER: 24CZ2-70HE-RDP-UNV-L92765-W2A1-U-5700K

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°	1789	1789	1789
5°	1796	1785	1793
10°	1791	1786	1794
15°	1788	1785	1797
20°	1775	1784	1802
25°	1769	1788	1806
30°	1753	1783	1812
35°	1736	1778	1819
40°	1717	1776	1842
45°	1688	1776	1884
50°	1651	1787	1941
55°	1609	1816	2027
60°	1541	1851	2139
65°	1443	1917	2271
70°	1312	2005	2443
75°	1112	2116	2552
80°	878	2129	2064
85°	648	1619	1814



TEST NUMBER: P277096

CATALOG NUMBER: 24CZ2-70HE-RDP-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	3.0
10°-20°	363.1	8.6
20°-30°	555.2	13.1
30°-40°	678.8	16.0
40°-50°	723.4	17.1
50°-60°	691.7	16.4
60°-70°	585.9	13.9
70°-80°	393.8	9.3
80°-90°	111.1	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°	1044.5	24.7
0°-40°	1723.2	40.7
0°-60°	3138.3	74.2
0°-90°	4229.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4229.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1330	1328	1322	1328	1328	126
15°	1284	1284	1282	1292	1290	362
25°	1192	1196	1204	1215	1217	549
35°	1057	1066	1082	1103	1108	662
45°	887	902	934	973	990	684
55°	686	711	774	835	864	611
65°	453	499	602	682	713	450
75°	214	292	407	476	491	229
85°	42	86	105	113	118	52
90°	0	0	0	0	0	



TEST NUMBER: P277096

CATALOG NUMBER: 24CZ2-70HE-RDP-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.9	1329.9	1329.9	1329.9	1329.9
2.5°	1332.0	1332.0	1325.7	1329.9	1329.9
5°	1329.9	1327.8	1321.5	1327.8	1327.8
7.5°	1323.6	1321.5	1317.4	1323.6	1321.5
10°	1311.1	1311.1	1306.9	1313.2	1313.2
12.5°	1300.6	1298.5	1296.4	1304.8	1302.7
15°	1283.8	1283.8	1281.7	1292.2	1290.1
17.5°	1262.8	1264.9	1267.0	1275.4	1277.5
20°	1239.7	1243.9	1246.0	1258.6	1258.6
22.5°	1218.8	1220.9	1225.1	1237.6	1237.6
25°	1191.5	1195.7	1204.1	1214.6	1216.7
27.5°	1164.2	1166.3	1176.8	1191.5	1193.6
30°	1128.6	1134.9	1147.4	1164.2	1166.3
32.5°	1097.1	1103.4	1118.1	1134.9	1139.0
35°	1057.2	1065.6	1082.4	1103.4	1107.6
37.5°	1021.6	1027.9	1048.8	1071.9	1078.2
40°	977.5	990.1	1011.1	1038.4	1048.8
42.5°	933.5	946.1	971.2	1006.9	1019.5
45°	887.3	902.0	933.5	973.3	990.1
47.5°	841.2	858.0	893.6	939.8	958.6
50°	788.7	809.7	853.8	906.2	927.2
52.5°	738.4	763.6	811.8	870.5	897.8
55°	685.9	711.1	774.0	834.9	864.2
57.5°	627.2	660.8	730.0	799.2	830.7
60°	572.7	604.1	688.0	763.6	795.0
62.5°	513.9	555.9	646.1	725.8	757.3
65°	453.1	499.3	602.0	681.7	713.2
67.5°	398.6	448.9	558.0	637.7	669.2
70°	333.5	396.5	509.7	589.5	620.9
72.5°	272.7	341.9	459.4	537.0	566.4
75°	214.0	291.6	407.0	476.2	490.9
77.5°	159.4	241.2	352.4	381.8	371.3
80°	113.3	193.0	274.8	260.1	266.4
82.5°	73.4	146.8	169.9	193.0	199.3
85°	42.0	86.0	104.9	113.3	117.5
87.5°	18.9	31.5	42.0	42.0	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)