

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: P276215

Luminaire Tested: **24CZ2-50HE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50HE-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4067.8 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

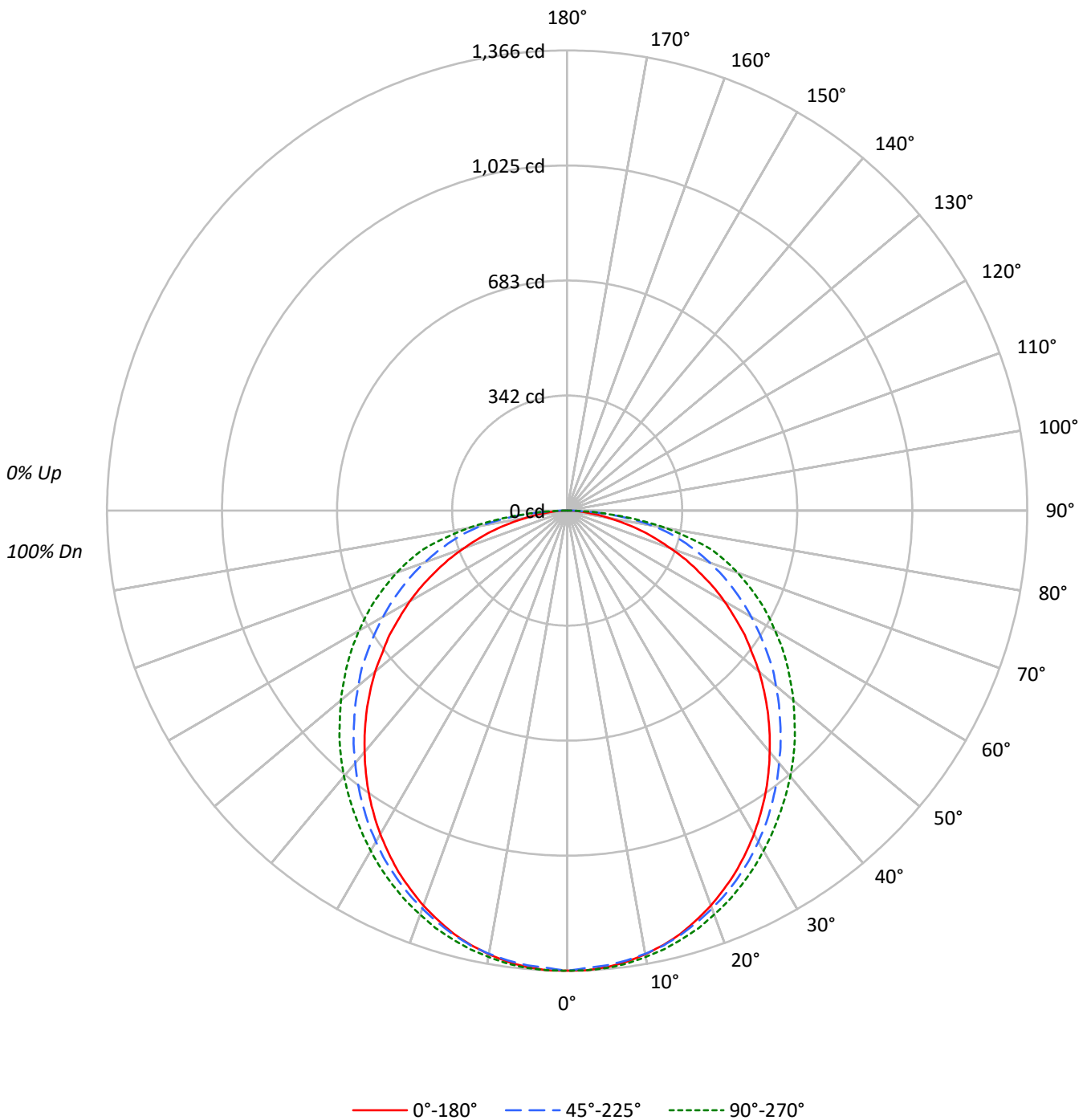
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									70									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													
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82						82													
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67						67													
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56						56													
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48						48													
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41						41													
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36						36													
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32						32													
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28						28													
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25						25													
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23						23													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1838	1838	1838
5°	1837	1830	1841
10°	1827	1825	1838
15°	1812	1815	1834
20°	1786	1800	1827
25°	1757	1784	1820
30°	1723	1763	1812
35°	1686	1742	1806
40°	1643	1719	1810
45°	1602	1702	1819
50°	1557	1694	1836
55°	1510	1691	1869
60°	1450	1699	1918
65°	1374	1725	2001
70°	1277	1768	2115
75°	1164	1856	2294
80°	957	1998	2294
85°	733	1845	1970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.2
10°-20°	368.8	9.1
20°-30°	554.9	13.6
30°-40°	665.0	16.3
40°-50°	693.0	17.0
50°-60°	644.8	15.9
60°-70°	531.0	13.1
70°-80°	361.7	8.9
80°-90°	119.4	2.9
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°	1052.9	25.9
0°-40°	1717.9	42.2
0°-60°	3055.7	75.1
0°-90°	4067.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1360	1360	1355	1362	1363	129
15°	1301	1302	1303	1316	1317	366
25°	1184	1189	1202	1222	1226	545
35°	1026	1039	1060	1089	1100	642
45°	842	859	895	940	956	649
55°	644	665	721	778	797	574
65°	432	468	542	606	629	429
75°	224	274	357	421	441	236
85°	48	92	120	128	128	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1365.7	1365.7	1365.7	1365.7	1365.7
2.5°	1365.7	1365.7	1359.0	1365.7	1365.7
5°	1360.3	1360.3	1354.9	1361.7	1363.0
7.5°	1350.8	1352.2	1346.7	1354.9	1356.2
10°	1337.2	1338.6	1335.9	1344.0	1345.4
12.5°	1320.9	1322.3	1322.3	1331.8	1333.2
15°	1300.6	1301.9	1303.3	1315.5	1316.9
17.5°	1274.8	1278.9	1281.6	1296.5	1299.2
20°	1247.6	1251.7	1257.1	1273.4	1276.1
22.5°	1216.4	1221.8	1231.3	1249.0	1253.1
25°	1183.8	1189.3	1201.5	1221.8	1225.9
27.5°	1147.2	1155.3	1170.3	1192.0	1197.4
30°	1109.2	1117.3	1135.0	1158.0	1166.2
32.5°	1068.4	1079.3	1099.7	1125.5	1133.6
35°	1026.3	1038.6	1060.3	1088.8	1099.7
37.5°	981.5	995.1	1020.9	1052.1	1065.7
40°	935.4	951.7	978.8	1015.5	1030.4
42.5°	889.2	904.2	938.1	977.5	993.8
45°	841.7	859.4	894.7	939.5	955.8
47.5°	792.8	810.5	852.6	900.1	915.0
50°	744.0	761.6	809.1	859.4	877.0
52.5°	691.0	714.1	768.4	818.6	836.3
55°	643.5	665.2	720.9	777.9	796.9
57.5°	589.2	615.0	676.1	735.8	756.2
60°	539.0	566.1	631.3	692.4	712.7
62.5°	487.4	517.2	586.5	648.9	672.0
65°	431.7	468.4	541.7	605.5	628.6
67.5°	381.5	419.5	496.9	562.0	582.4
70°	324.5	370.6	449.4	514.5	537.6
72.5°	275.6	321.8	404.6	468.4	491.5
75°	224.0	274.2	357.0	420.9	441.2
77.5°	172.4	228.1	310.9	359.8	366.6
80°	123.5	181.9	257.9	286.5	296.0
82.5°	86.9	139.8	190.1	209.1	214.5
85°	47.5	92.3	119.5	127.6	127.6
87.5°	20.4	39.4	47.5	48.9	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)