

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: P276086

Luminaire Tested: **24CZ2-50HE-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276086
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-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4970.3 lumens
Efficiency: N/A
Efficacy: 133.3 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

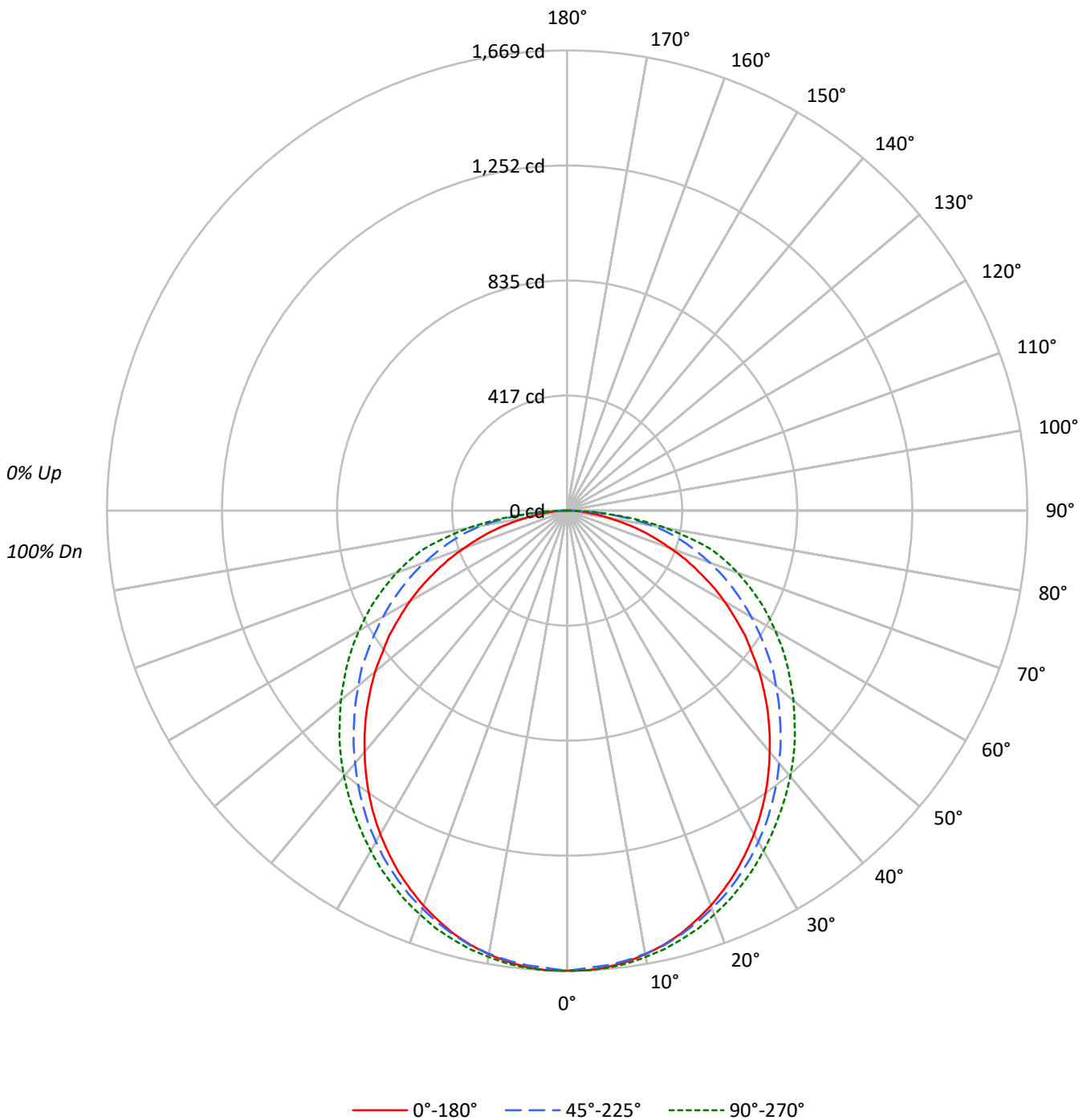
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2245	2245	2245
5°	2245	2236	2249
10°	2232	2230	2246
15°	2214	2218	2241
20°	2183	2199	2233
25°	2147	2179	2224
30°	2105	2155	2214
35°	2060	2128	2207
40°	2007	2101	2211
45°	1957	2080	2222
50°	1903	2069	2243
55°	1844	2066	2284
60°	1772	2076	2344
65°	1679	2107	2445
70°	1560	2160	2584
75°	1423	2268	2803
80°	1170	2442	2802
85°	897	2254	2407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	3.2
10°-20°	450.6	9.1
20°-30°	678.0	13.6
30°-40°	812.6	16.3
40°-50°	846.8	17.0
50°-60°	787.8	15.9
60°-70°	648.9	13.1
70°-80°	441.9	8.9
80°-90°	145.9	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°	1286.4	25.9
0°-40°	2099.0	42.2
0°-60°	3733.6	75.1
0°-90°	4970.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4970.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1662	1662	1656	1664	1665	158
15°	1589	1591	1592	1607	1609	448
25°	1446	1453	1468	1493	1498	666
35°	1254	1269	1296	1330	1344	784
45°	1028	1050	1093	1148	1168	793
55°	786	813	881	950	974	701
65°	528	572	662	740	768	524
75°	274	335	436	514	539	289
85°	58	113	146	156	156	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1668.8	1668.8	1660.5	1668.8	1668.8
5°	1662.1	1662.1	1655.5	1663.8	1665.4
7.5°	1650.5	1652.2	1645.5	1655.5	1657.1
10°	1633.9	1635.6	1632.3	1642.2	1643.9
12.5°	1614.0	1615.7	1615.7	1627.3	1628.9
15°	1589.1	1590.8	1592.5	1607.4	1609.0
17.5°	1557.6	1562.6	1565.9	1584.2	1587.5
20°	1524.4	1529.4	1536.1	1556.0	1559.3
22.5°	1486.3	1492.9	1504.5	1526.1	1531.1
25°	1446.5	1453.1	1468.0	1492.9	1497.9
27.5°	1401.7	1411.6	1429.9	1456.4	1463.1
30°	1355.2	1365.2	1386.8	1415.0	1424.9
32.5°	1305.5	1318.7	1343.6	1375.1	1385.1
35°	1254.1	1269.0	1295.5	1330.4	1343.6
37.5°	1199.3	1215.9	1247.4	1285.6	1302.2
40°	1142.9	1162.8	1196.0	1240.8	1259.0
42.5°	1086.5	1104.8	1146.2	1194.3	1214.2
45°	1028.5	1050.0	1093.2	1147.9	1167.8
47.5°	968.7	990.3	1041.7	1099.8	1118.0
50°	909.0	930.6	988.6	1050.0	1071.6
52.5°	844.3	872.5	938.9	1000.3	1021.8
55°	786.3	812.8	880.8	950.5	973.7
57.5°	719.9	751.4	826.1	899.1	924.0
60°	658.5	691.7	771.3	846.0	870.9
62.5°	595.5	632.0	716.6	792.9	821.1
65°	527.5	572.3	661.9	739.8	768.0
67.5°	466.1	512.6	607.1	686.7	711.6
70°	396.5	452.9	549.1	628.7	656.9
72.5°	336.7	393.1	494.3	572.3	600.5
75°	273.7	335.1	436.3	514.2	539.1
77.5°	210.7	278.7	379.9	439.6	447.9
80°	151.0	222.3	315.2	350.0	361.6
82.5°	106.2	170.9	232.2	255.5	262.1
85°	58.1	112.8	146.0	155.9	155.9
87.5°	24.9	48.1	58.1	59.7	61.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)