

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: P276083

Luminaire Tested: **24CZ2-50HE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276083
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-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4895.6 lumens
Efficiency: N/A
Efficacy: 133.9 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

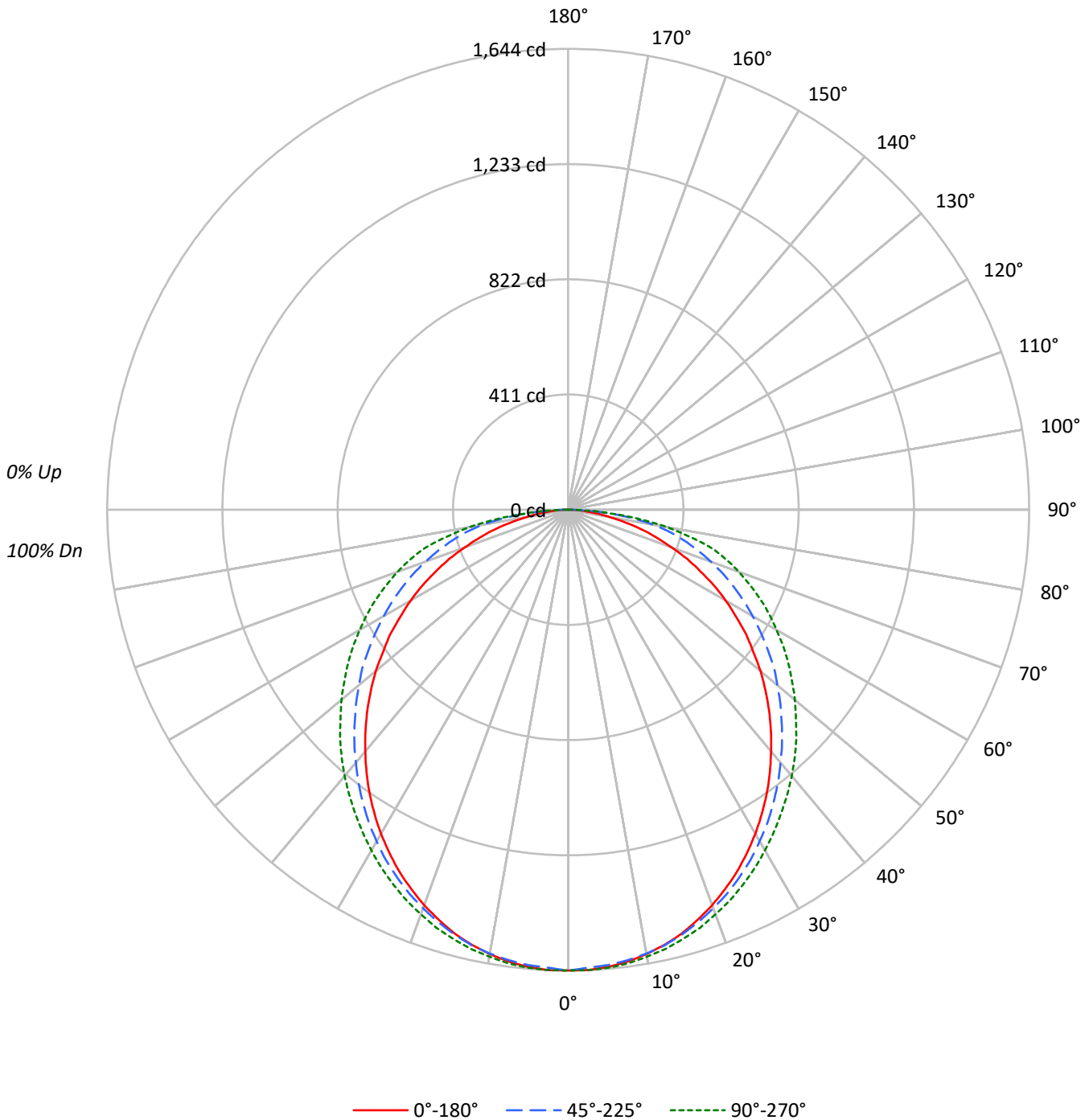
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2212	2212	2212
5°	2211	2202	2216
10°	2199	2197	2212
15°	2180	2185	2208
20°	2150	2166	2199
25°	2115	2147	2190
30°	2074	2122	2181
35°	2029	2096	2174
40°	1977	2069	2178
45°	1928	2049	2189
50°	1874	2038	2209
55°	1817	2035	2250
60°	1745	2044	2308
65°	1654	2075	2408
70°	1536	2127	2545
75°	1402	2234	2760
80°	1152	2405	2760
85°	883	2220	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	3.2
10°-20°	443.8	9.1
20°-30°	667.9	13.6
30°-40°	800.3	16.3
40°-50°	834.0	17.0
50°-60°	776.0	15.9
60°-70°	639.1	13.1
70°-80°	435.3	8.9
80°-90°	143.7	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°	1267.1	25.9
0°-40°	2067.4	42.2
0°-60°	3677.5	75.1
0°-90°	4895.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4895.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1637	1637	1631	1639	1640	155
15°	1565	1567	1568	1583	1585	441
25°	1425	1431	1446	1470	1475	656
35°	1235	1250	1276	1310	1323	772
45°	1013	1034	1077	1131	1150	781
55°	774	801	868	936	959	690
65°	520	564	652	729	756	516
75°	270	330	430	506	531	284
85°	57	111	144	154	154	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.7	1643.7	1643.7	1643.7	1643.7
2.5°	1643.7	1643.7	1635.5	1643.7	1643.7
5°	1637.1	1637.1	1630.6	1638.8	1640.4
7.5°	1625.7	1627.3	1620.8	1630.6	1632.2
10°	1609.4	1611.0	1607.7	1617.5	1619.2
12.5°	1589.7	1591.4	1591.4	1602.8	1604.5
15°	1565.2	1566.9	1568.5	1583.2	1584.8
17.5°	1534.2	1539.1	1542.4	1560.3	1563.6
20°	1501.5	1506.4	1513.0	1532.6	1535.8
22.5°	1463.9	1470.5	1481.9	1503.2	1508.1
25°	1424.7	1431.3	1446.0	1470.5	1475.4
27.5°	1380.6	1390.4	1408.4	1434.5	1441.1
30°	1334.9	1344.7	1365.9	1393.7	1403.5
32.5°	1285.8	1298.9	1323.4	1354.5	1364.3
35°	1235.2	1249.9	1276.0	1310.4	1323.4
37.5°	1181.3	1197.6	1228.7	1266.2	1282.6
40°	1125.7	1145.3	1178.0	1222.1	1240.1
42.5°	1070.2	1088.2	1129.0	1176.4	1196.0
45°	1013.0	1034.2	1076.7	1130.6	1150.2
47.5°	954.2	975.4	1026.1	1083.2	1101.2
50°	895.4	916.6	973.8	1034.2	1055.5
52.5°	831.6	859.4	924.8	985.2	1006.5
55°	774.4	800.6	867.6	936.2	959.1
57.5°	709.1	740.1	813.7	885.6	910.1
60°	648.6	681.3	759.7	833.3	857.8
62.5°	586.6	622.5	705.8	781.0	808.8
65°	519.6	563.7	651.9	728.7	756.5
67.5°	459.1	504.9	598.0	676.4	700.9
70°	390.5	446.0	540.8	619.2	647.0
72.5°	331.7	387.2	486.9	563.7	591.5
75°	269.6	330.0	429.7	506.5	531.0
77.5°	207.5	274.5	374.2	433.0	441.1
80°	148.7	218.9	310.4	344.7	356.2
82.5°	104.6	168.3	228.7	251.6	258.1
85°	57.2	111.1	143.8	153.6	153.6
87.5°	24.5	47.4	57.2	58.8	60.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)