

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: P260879

Luminaire Tested: **24CZ-LD5-50-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4718.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

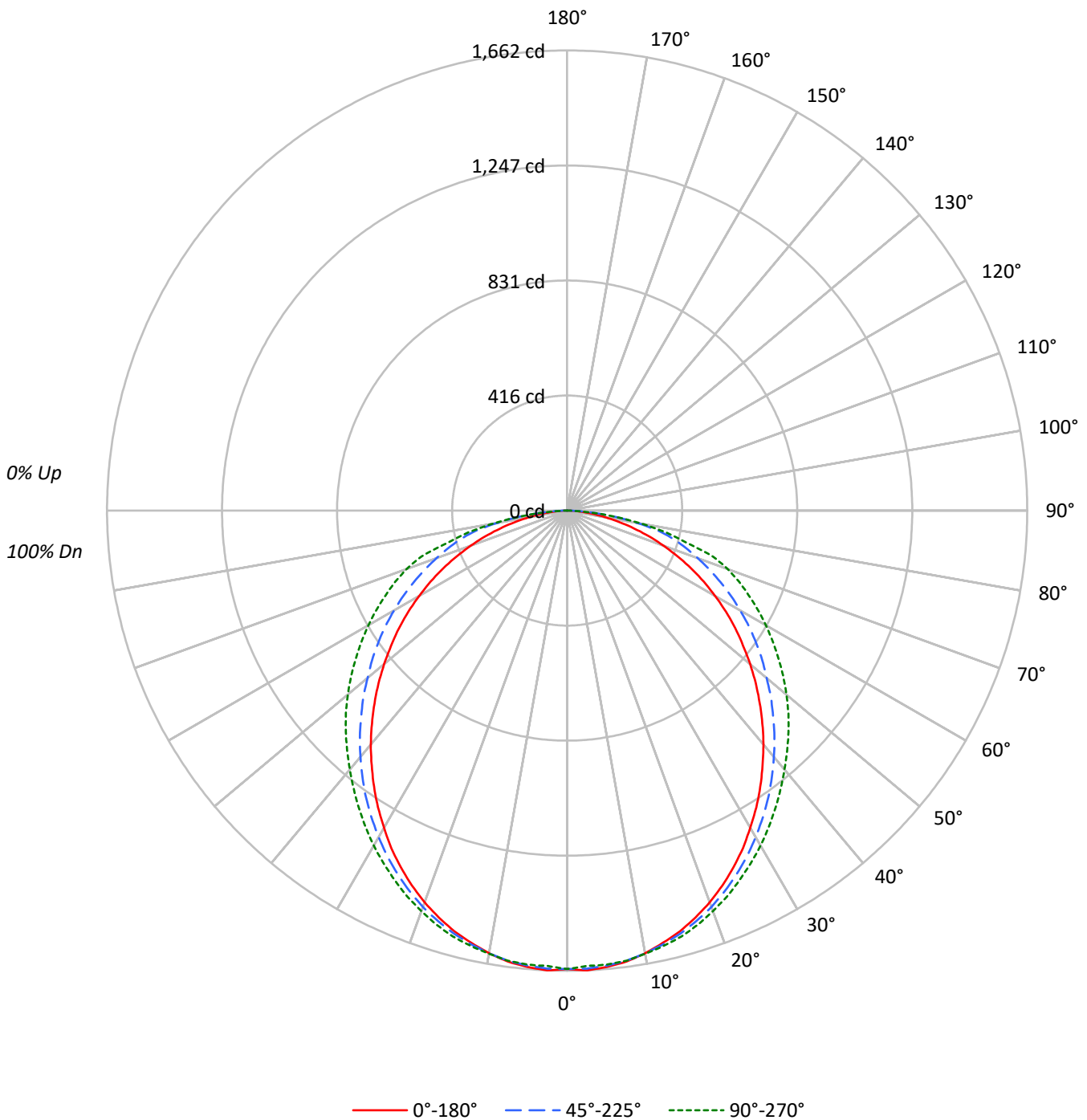
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2228	2228	2228
5°	2234	2228	2223
10°	2218	2218	2220
15°	2192	2203	2219
20°	2156	2181	2204
25°	2110	2151	2187
30°	2055	2116	2171
35°	1998	2080	2155
40°	1938	2040	2145
45°	1872	2001	2152
50°	1806	1968	2164
55°	1739	1955	2187
60°	1661	1943	2230
65°	1574	1944	2304
70°	1455	1976	2428
75°	1302	2066	2309
80°	1089	1977	2115
85°	823	1521	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	3.3
10°-20°	445.3	9.4
20°-30°	665.7	14.1
30°-40°	789.8	16.7
40°-50°	812.9	17.2
50°-60°	745.7	15.8
60°-70°	602.9	12.8
70°-80°	391.3	8.3
80°-90°	107.9	2.3
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°	1267.5	26.9
0°-40°	2057.3	43.6
0°-60°	3615.9	76.6
0°-90°	4718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1654	1643	1649	1648	1646	157
15°	1573	1567	1582	1588	1593	443
25°	1422	1423	1449	1462	1473	654
35°	1216	1226	1266	1294	1312	761
45°	984	1000	1052	1102	1131	759
55°	742	764	834	901	932	662
65°	494	523	611	691	724	488
75°	250	297	397	444	444	266
85°	53	90	98	95	94	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1655.8	1655.8	1655.8	1655.8	1655.8
2.5°	1662.2	1649.3	1655.8	1654.2	1646.1
5°	1654.2	1642.8	1649.3	1647.7	1646.1
7.5°	1642.8	1631.5	1639.6	1638.0	1639.6
10°	1623.5	1613.8	1623.5	1625.1	1625.1
12.5°	1599.2	1591.2	1604.1	1607.3	1610.5
15°	1573.4	1566.9	1581.5	1587.9	1592.8
17.5°	1541.1	1536.2	1554.0	1562.1	1568.5
20°	1505.5	1503.9	1523.3	1531.4	1539.5
22.5°	1465.2	1465.2	1487.8	1497.5	1508.8
25°	1421.5	1423.2	1449.0	1461.9	1473.2
27.5°	1374.7	1376.3	1407.0	1423.2	1436.1
30°	1323.0	1329.5	1361.8	1382.8	1397.3
32.5°	1271.3	1279.4	1314.9	1339.2	1355.3
35°	1216.4	1226.1	1266.5	1293.9	1311.7
37.5°	1159.8	1171.2	1214.8	1245.5	1266.5
40°	1103.3	1116.2	1161.5	1197.0	1221.2
42.5°	1043.5	1058.1	1108.2	1150.2	1176.0
45°	983.8	999.9	1051.6	1101.7	1130.8
47.5°	924.0	943.4	998.3	1053.2	1083.9
50°	862.6	882.0	940.2	1003.2	1033.8
52.5°	801.2	823.8	888.5	953.1	983.8
55°	741.5	764.1	833.5	901.4	932.1
57.5°	680.1	702.7	778.6	849.7	880.4
60°	617.1	642.9	722.1	794.8	828.7
62.5°	555.7	583.2	667.2	744.7	777.0
65°	494.3	523.4	610.6	691.4	723.7
67.5°	431.3	465.2	555.7	638.1	672.0
70°	369.9	407.1	502.4	584.8	617.1
72.5°	310.2	350.5	449.1	533.1	552.5
75°	250.4	297.2	397.4	444.2	444.2
77.5°	193.8	245.5	339.2	357.0	366.7
80°	140.5	197.1	255.2	276.2	273.0
82.5°	93.7	150.2	182.5	182.5	177.7
85°	53.3	90.5	98.5	95.3	93.7
87.5°	22.6	33.9	30.7	24.2	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)