

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: P260965

Luminaire Tested: **24CZ-LD5-50SE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260965
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-LD5-50SE-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4280.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

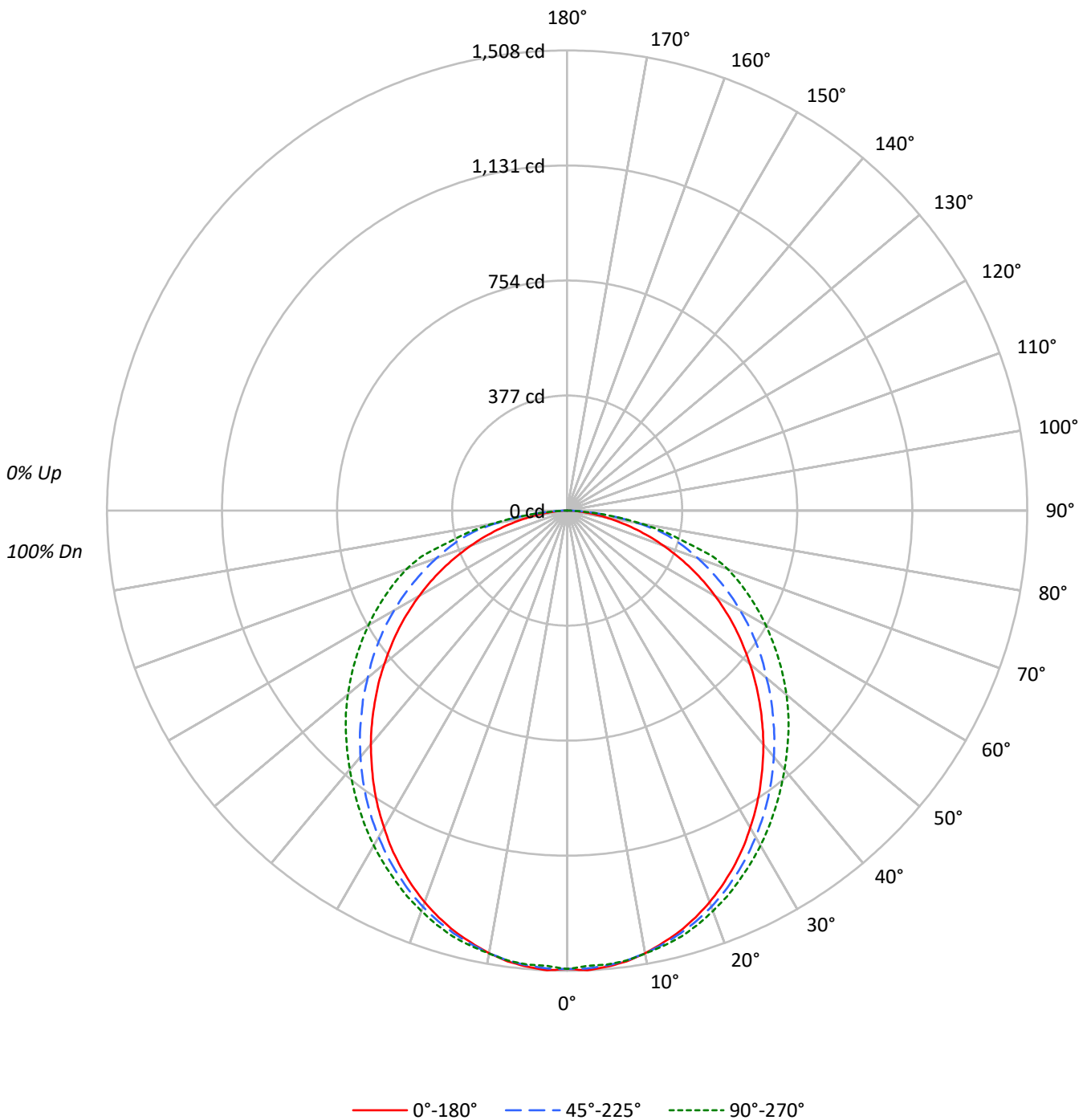
Input Watts (W): 39.804
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2021	2021	2021
5°	2027	2021	2017
10°	2012	2012	2014
15°	1988	1998	2013
20°	1956	1979	2000
25°	1915	1951	1984
30°	1865	1919	1969
35°	1813	1887	1954
40°	1758	1851	1946
45°	1698	1815	1952
50°	1638	1785	1963
55°	1578	1774	1983
60°	1506	1763	2023
65°	1428	1763	2090
70°	1320	1793	2202
75°	1181	1874	2095
80°	988	1794	1919
85°	747	1380	1312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	3.3
10°-20°	404.0	9.4
20°-30°	603.9	14.1
30°-40°	716.4	16.7
40°-50°	737.4	17.2
50°-60°	676.5	15.8
60°-70°	547.0	12.8
70°-80°	355.0	8.3
80°-90°	97.9	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°	1149.8	26.9
0°-40°	1866.3	43.6
0°-60°	3280.2	76.6
0°-90°	4280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1501	1490	1496	1495	1493	142
15°	1427	1422	1435	1440	1445	402
25°	1290	1291	1314	1326	1336	594
35°	1104	1112	1149	1174	1190	690
45°	892	907	954	999	1026	689
55°	673	693	756	818	846	601
65°	448	475	554	627	656	443
75°	227	270	360	403	403	241
85°	48	82	89	86	85	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1502.1	1502.1	1502.1	1502.1	1502.1
2.5°	1507.9	1496.2	1502.1	1500.6	1493.3
5°	1500.6	1490.3	1496.2	1494.7	1493.3
7.5°	1490.3	1480.1	1487.4	1485.9	1487.4
10°	1472.7	1464.0	1472.7	1474.2	1474.2
12.5°	1450.8	1443.4	1455.2	1458.1	1461.0
15°	1427.3	1421.5	1434.6	1440.5	1444.9
17.5°	1398.0	1393.6	1409.7	1417.1	1422.9
20°	1365.8	1364.3	1381.9	1389.2	1396.5
22.5°	1329.1	1329.1	1349.7	1358.4	1368.7
25°	1289.6	1291.0	1314.5	1326.2	1336.5
27.5°	1247.1	1248.5	1276.4	1291.0	1302.8
30°	1200.2	1206.0	1235.4	1254.4	1267.6
32.5°	1153.3	1160.6	1192.9	1214.8	1229.5
35°	1103.5	1112.3	1148.9	1173.8	1189.9
37.5°	1052.2	1062.4	1102.0	1129.8	1148.9
40°	1000.9	1012.6	1053.6	1085.9	1107.9
42.5°	946.7	959.9	1005.3	1043.4	1066.8
45°	892.4	907.1	954.0	999.4	1025.8
47.5°	838.2	855.8	905.6	955.5	983.3
50°	782.5	800.1	852.9	910.0	937.9
52.5°	726.8	747.4	806.0	864.6	892.4
55°	672.6	693.1	756.2	817.7	845.5
57.5°	616.9	637.5	706.3	770.8	798.7
60°	559.8	583.2	655.0	721.0	751.8
62.5°	504.1	529.0	605.2	675.6	704.9
65°	448.4	474.8	553.9	627.2	656.5
67.5°	391.3	422.0	504.1	578.8	609.6
70°	335.6	369.3	455.7	530.5	559.8
72.5°	281.4	318.0	407.4	483.6	501.2
75°	227.1	269.6	360.5	403.0	403.0
77.5°	175.9	222.7	307.7	323.9	332.7
80°	127.5	178.8	231.5	250.6	247.7
82.5°	85.0	136.3	165.6	165.6	161.2
85°	48.4	82.1	89.4	86.5	85.0
87.5°	20.5	30.8	27.8	22.0	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)