

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: P260564

Luminaire Tested: **24CZ-LD5-40-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260564
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-LD5-40-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4277.0 lumens
Efficiency: N/A
Efficacy: 147.9 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

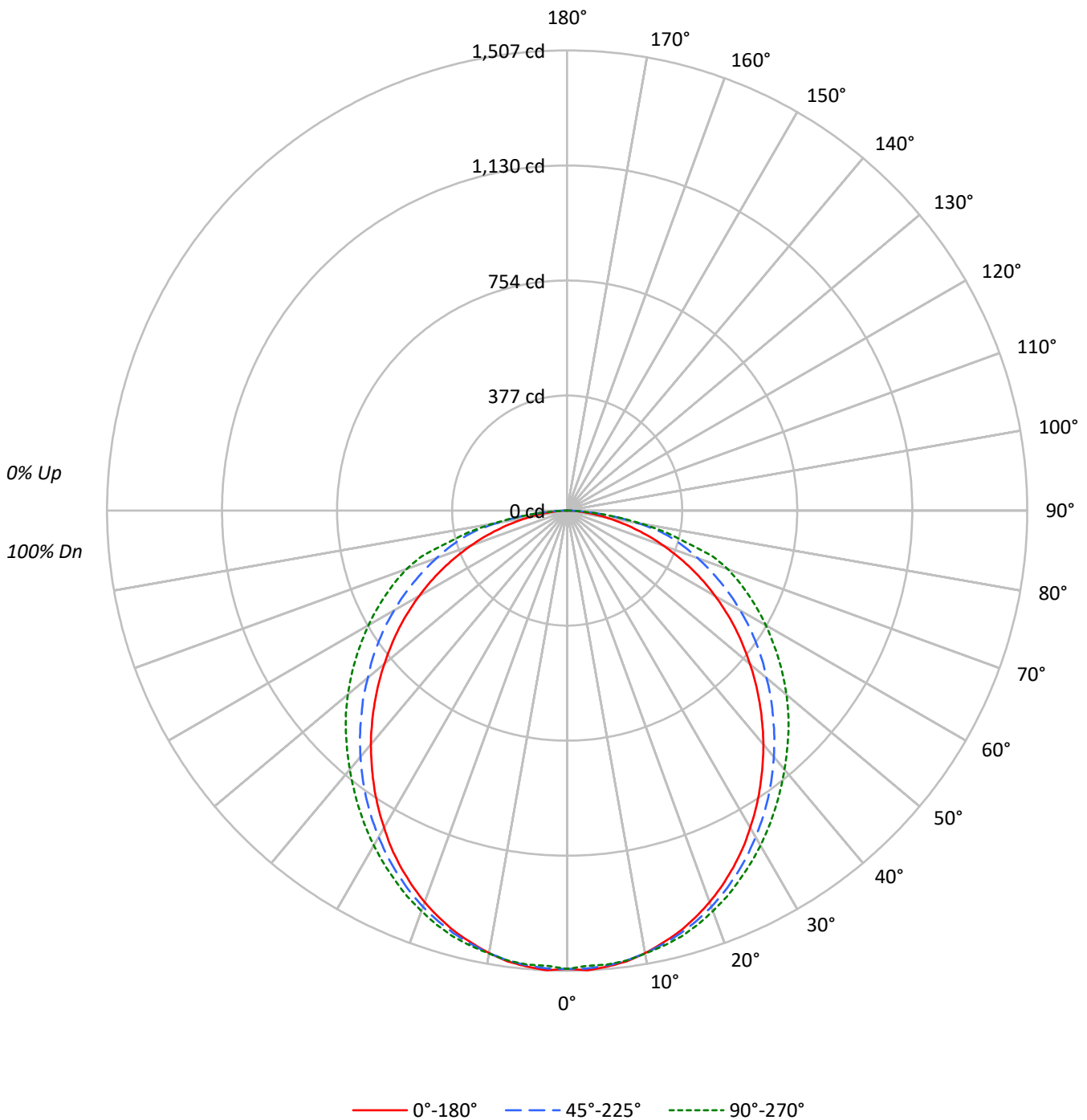
Input Watts (W): 28.922256
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2020	2020	2020
5°	2025	2019	2015
10°	2011	2011	2013
15°	1987	1997	2011
20°	1954	1977	1998
25°	1913	1950	1983
30°	1863	1918	1968
35°	1811	1886	1953
40°	1757	1849	1945
45°	1697	1814	1951
50°	1637	1784	1962
55°	1577	1772	1982
60°	1505	1762	2021
65°	1427	1762	2089
70°	1319	1792	2201
75°	1180	1873	2093
80°	987	1793	1918
85°	746	1379	1311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	3.3
10°-20°	403.7	9.4
20°-30°	603.5	14.1
30°-40°	715.9	16.7
40°-50°	736.9	17.2
50°-60°	676.0	15.8
60°-70°	546.6	12.8
70°-80°	354.7	8.3
80°-90°	97.8	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°	1149.0	26.9
0°-40°	1865.0	43.6
0°-60°	3277.9	76.6
0°-90°	4277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1500	1489	1495	1494	1492	142
15°	1426	1420	1434	1440	1444	402
25°	1289	1290	1314	1325	1336	593
35°	1103	1112	1148	1173	1189	690
45°	892	906	953	999	1025	688
55°	672	693	756	817	845	600
65°	448	474	554	627	656	443
75°	227	269	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°	1501.0	1501.0	1501.0	1501.0	1501.0
2.5°	1506.9	1495.1	1501.0	1499.5	1492.2
5°	1499.5	1489.3	1495.1	1493.7	1492.2
7.5°	1489.3	1479.0	1486.4	1484.9	1486.4
10°	1471.7	1462.9	1471.7	1473.2	1473.2
12.5°	1449.8	1442.4	1454.1	1457.1	1460.0
15°	1426.3	1420.5	1433.6	1439.5	1443.9
17.5°	1397.0	1392.6	1408.7	1416.1	1421.9
20°	1364.8	1363.4	1380.9	1388.2	1395.6
22.5°	1328.2	1328.2	1348.7	1357.5	1367.7
25°	1288.7	1290.1	1313.6	1325.3	1335.5
27.5°	1246.2	1247.7	1275.5	1290.1	1301.8
30°	1199.3	1205.2	1234.5	1253.5	1266.7
32.5°	1152.5	1159.8	1192.0	1214.0	1228.6
35°	1102.7	1111.5	1148.1	1173.0	1189.1
37.5°	1051.4	1061.7	1101.2	1129.0	1148.1
40°	1000.2	1011.9	1052.9	1085.1	1107.1
42.5°	946.0	959.2	1004.6	1042.6	1066.1
45°	891.8	906.5	953.3	998.7	1025.1
47.5°	837.6	855.2	905.0	954.8	982.6
50°	782.0	799.6	852.3	909.4	937.2
52.5°	726.3	746.8	805.4	864.0	891.8
55°	672.2	692.7	755.6	817.1	845.0
57.5°	616.5	637.0	705.8	770.3	798.1
60°	559.4	582.8	654.6	720.5	751.2
62.5°	503.8	528.6	604.8	675.1	704.4
65°	448.1	474.5	553.5	626.8	656.0
67.5°	391.0	421.7	503.8	578.4	609.2
70°	335.3	369.0	455.4	530.1	559.4
72.5°	281.2	317.8	407.1	483.3	500.8
75°	227.0	269.4	360.2	402.7	402.7
77.5°	175.7	222.6	307.5	323.6	332.4
80°	127.4	178.7	231.4	250.4	247.5
82.5°	84.9	136.2	165.5	165.5	161.1
85°	48.3	82.0	89.3	86.4	84.9
87.5°	20.5	30.8	27.8	22.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)