

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: P260726

Luminaire Tested: **24CZ-LD5-40-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260726
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-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4235.1 lumens
Efficiency: N/A
Efficacy: 145.5 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

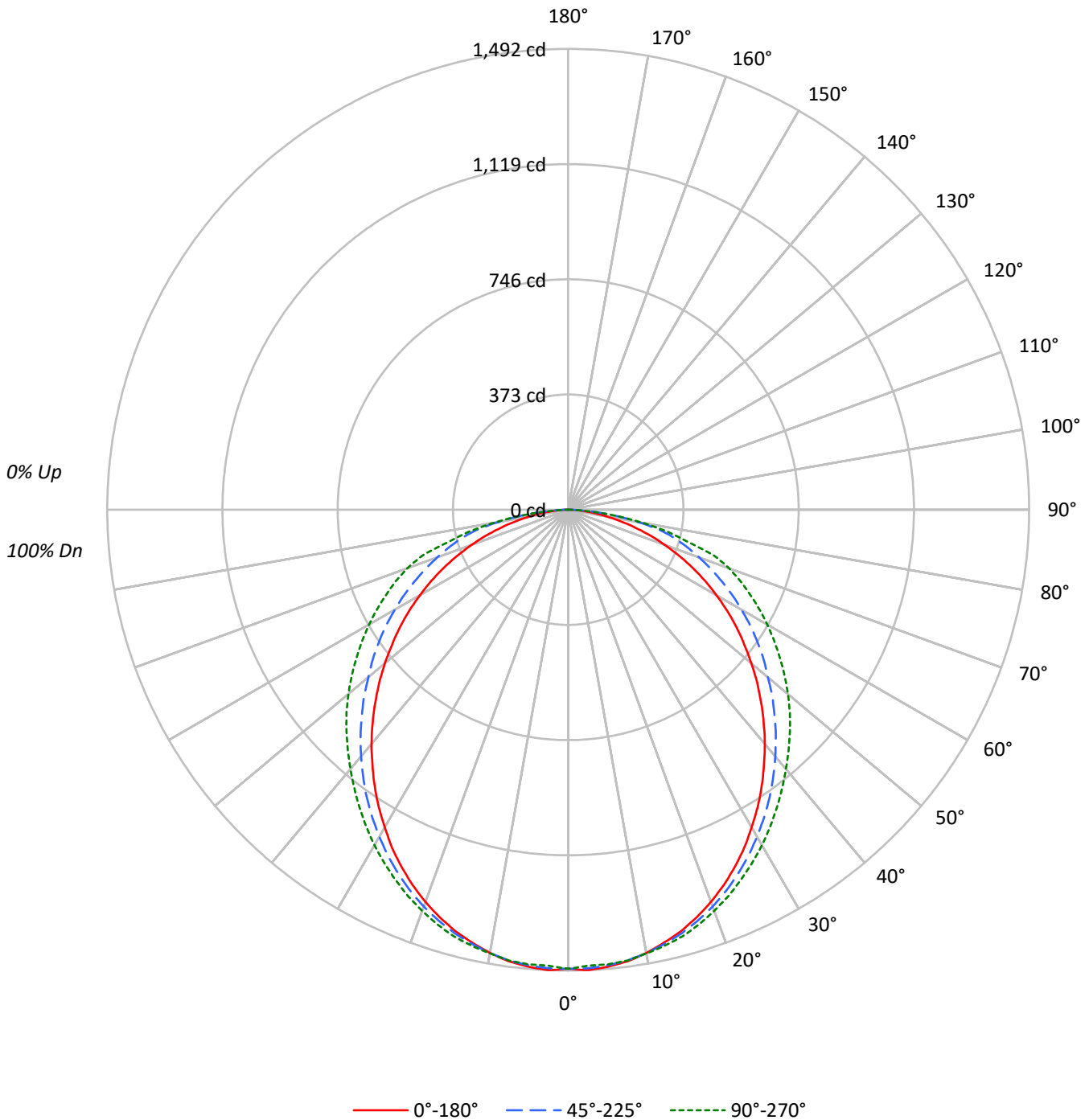
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2000	2000	2000
5°	2005	2000	1996
10°	1991	1991	1993
15°	1967	1977	1992
20°	1935	1958	1979
25°	1894	1931	1963
30°	1845	1899	1949
35°	1793	1867	1934
40°	1740	1831	1925
45°	1680	1796	1931
50°	1621	1766	1942
55°	1561	1755	1963
60°	1491	1744	2002
65°	1413	1745	2068
70°	1306	1774	2179
75°	1169	1854	2073
80°	978	1775	1899
85°	739	1366	1298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	3.3
10°-20°	399.7	9.4
20°-30°	597.6	14.1
30°-40°	708.9	16.7
40°-50°	729.7	17.2
50°-60°	669.4	15.8
60°-70°	541.2	12.8
70°-80°	351.3	8.3
80°-90°	96.9	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°	1137.8	26.9
0°-40°	1846.7	43.6
0°-60°	3245.7	76.6
0°-90°	4235.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4235.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1485	1475	1480	1479	1478	141
15°	1412	1406	1420	1425	1430	398
25°	1276	1278	1301	1312	1322	587
35°	1092	1101	1137	1162	1177	683
45°	883	898	944	989	1015	681
55°	666	686	748	809	837	595
65°	444	470	548	621	650	438
75°	225	267	357	399	399	239
85°	48	81	88	86	84	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486.3	1486.3	1486.3	1486.3	1486.3
2.5°	1492.1	1480.5	1486.3	1484.8	1477.6
5°	1484.8	1474.7	1480.5	1479.0	1477.6
7.5°	1474.7	1464.5	1471.8	1470.3	1471.8
10°	1457.3	1448.6	1457.3	1458.7	1458.7
12.5°	1435.5	1428.3	1439.9	1442.8	1445.7
15°	1412.3	1406.5	1419.6	1425.4	1429.7
17.5°	1383.3	1379.0	1394.9	1402.2	1408.0
20°	1351.4	1350.0	1367.4	1374.6	1381.9
22.5°	1315.2	1315.2	1335.5	1344.2	1354.3
25°	1276.0	1277.5	1300.7	1312.3	1322.4
27.5°	1234.0	1235.4	1263.0	1277.5	1289.1
30°	1187.6	1193.4	1222.4	1241.2	1254.3
32.5°	1141.2	1148.4	1180.3	1202.1	1216.6
35°	1091.9	1100.6	1136.8	1161.5	1177.4
37.5°	1041.1	1051.3	1090.4	1118.0	1136.8
40°	990.4	1002.0	1042.6	1074.5	1096.2
42.5°	936.7	949.8	994.7	1032.4	1055.6
45°	883.1	897.6	944.0	988.9	1015.0
47.5°	829.4	846.8	896.1	945.4	973.0
50°	774.3	791.7	843.9	900.5	928.0
52.5°	719.2	739.5	797.5	855.5	883.1
55°	665.6	685.9	748.2	809.1	836.7
57.5°	610.5	630.8	698.9	762.7	790.3
60°	553.9	577.1	648.2	713.4	743.9
62.5°	498.8	523.5	598.9	668.5	697.5
65°	443.7	469.8	548.1	620.6	649.6
67.5°	387.2	417.6	498.8	572.8	603.2
70°	332.1	365.4	451.0	524.9	553.9
72.5°	278.4	314.7	403.1	478.5	495.9
75°	224.8	266.8	356.7	398.8	398.8
77.5°	174.0	220.4	304.5	320.5	329.2
80°	126.2	176.9	229.1	248.0	245.1
82.5°	84.1	134.9	163.9	163.9	159.5
85°	47.9	81.2	88.5	85.6	84.1
87.5°	20.3	30.5	27.6	21.8	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)