

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: P260562

Luminaire Tested: **24CZ-LD5-40-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260562
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3849.0 lumens
Efficiency: N/A
Efficacy: 136.4 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

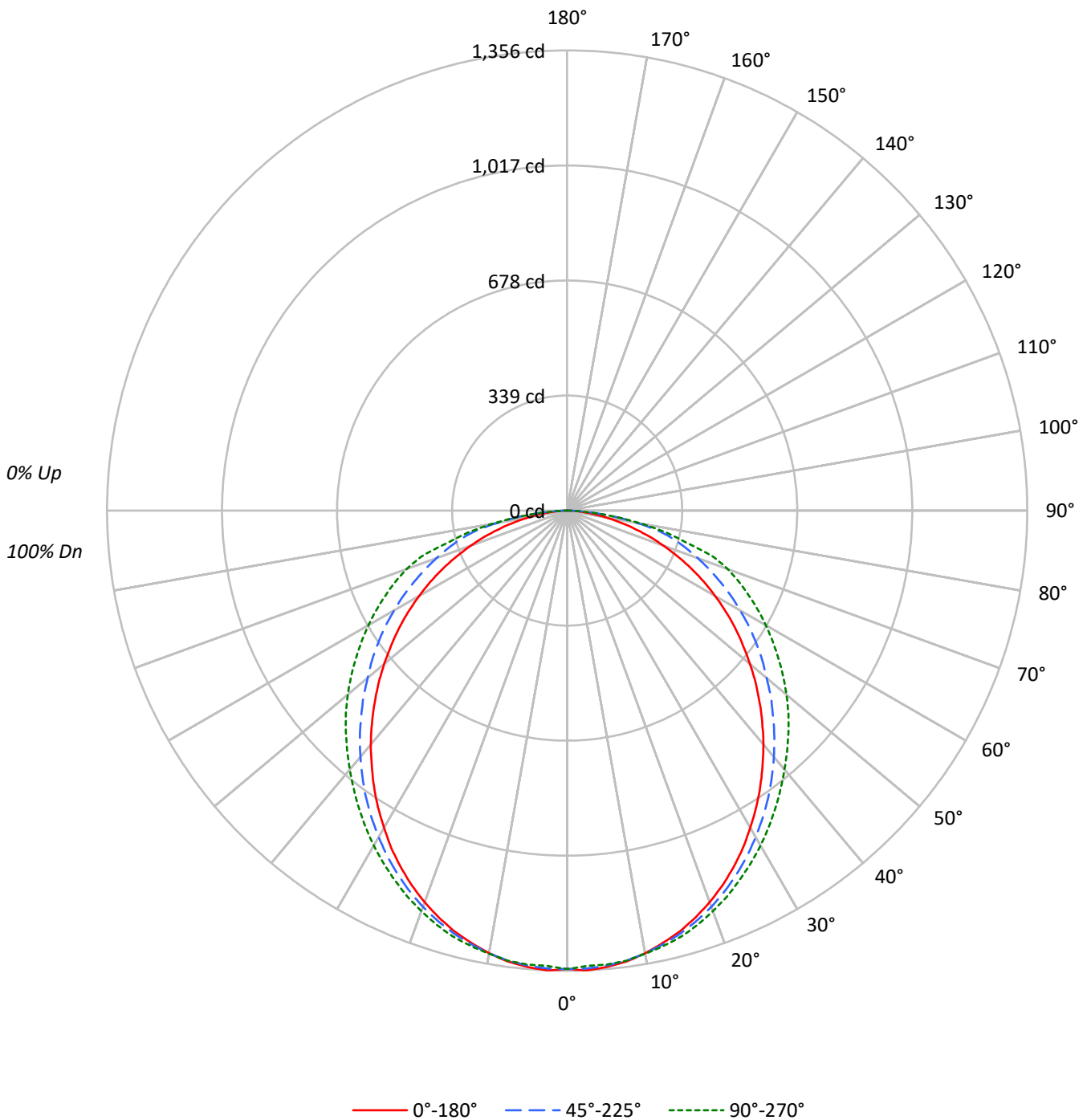
Input Watts (W): 28.215456
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1817	1817	1817
5°	1823	1817	1814
10°	1809	1809	1811
15°	1788	1797	1810
20°	1759	1779	1798
25°	1722	1755	1784
30°	1677	1726	1771
35°	1630	1697	1758
40°	1581	1664	1750
45°	1527	1632	1755
50°	1473	1605	1765
55°	1419	1595	1784
60°	1355	1585	1819
65°	1284	1586	1880
70°	1187	1613	1980
75°	1062	1685	1884
80°	889	1613	1726
85°	672	1241	1179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	3.3
10°-20°	363.3	9.4
20°-30°	543.1	14.1
30°-40°	644.3	16.7
40°-50°	663.1	17.2
50°-60°	608.4	15.8
60°-70°	491.9	12.8
70°-80°	319.2	8.3
80°-90°	88.0	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°	1034.0	26.9
0°-40°	1678.3	43.6
0°-60°	2949.8	76.6
0°-90°	3849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1350	1340	1346	1344	1343	128
15°	1284	1278	1290	1295	1299	362
25°	1160	1161	1182	1193	1202	534
35°	992	1000	1033	1056	1070	621
45°	803	816	858	899	922	619
55°	605	623	680	735	760	540
65°	403	427	498	564	590	399
75°	204	242	324	362	362	217
85°	44	74	80	78	76	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1356.1	1345.5	1350.8	1349.5	1342.9
5°	1349.5	1340.3	1345.5	1344.2	1342.9
7.5°	1340.3	1331.0	1337.6	1336.3	1337.6
10°	1324.4	1316.5	1324.4	1325.8	1325.8
12.5°	1304.7	1298.1	1308.6	1311.3	1313.9
15°	1283.6	1278.3	1290.2	1295.4	1299.4
17.5°	1257.2	1253.3	1267.8	1274.4	1279.6
20°	1228.2	1226.9	1242.7	1249.3	1255.9
22.5°	1195.3	1195.3	1213.7	1221.6	1230.9
25°	1159.7	1161.0	1182.1	1192.7	1201.9
27.5°	1121.5	1122.8	1147.8	1161.0	1171.6
30°	1079.3	1084.6	1110.9	1128.1	1139.9
32.5°	1037.1	1043.7	1072.7	1092.5	1105.7
35°	992.3	1000.3	1033.2	1055.6	1070.1
37.5°	946.2	955.4	991.0	1016.1	1033.2
40°	900.1	910.6	947.5	976.5	996.3
42.5°	851.3	863.2	904.0	938.3	959.4
45°	802.6	815.8	857.9	898.8	922.5
47.5°	753.8	769.6	814.4	859.2	884.3
50°	703.7	719.5	767.0	818.4	843.4
52.5°	653.7	672.1	724.8	777.5	802.6
55°	604.9	623.3	680.0	735.4	760.4
57.5°	554.8	573.3	635.2	693.2	718.2
60°	503.4	524.5	589.1	648.4	676.1
62.5°	453.3	475.7	544.3	607.5	633.9
65°	403.3	427.0	498.1	564.0	590.4
67.5°	351.9	379.5	453.3	520.6	548.2
70°	301.8	332.1	409.9	477.1	503.4
72.5°	253.0	286.0	366.4	434.9	450.7
75°	204.3	242.5	324.2	362.4	362.4
77.5°	158.1	200.3	276.7	291.2	299.2
80°	114.7	160.8	208.2	225.4	222.7
82.5°	76.4	122.6	148.9	148.9	145.0
85°	43.5	73.8	80.4	77.8	76.4
87.5°	18.4	27.7	25.0	19.8	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)