

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: P260722

Luminaire Tested: **24CZ-LD5-40-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260722
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3978.0 lumens
Efficiency: N/A
Efficacy: 140.2 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

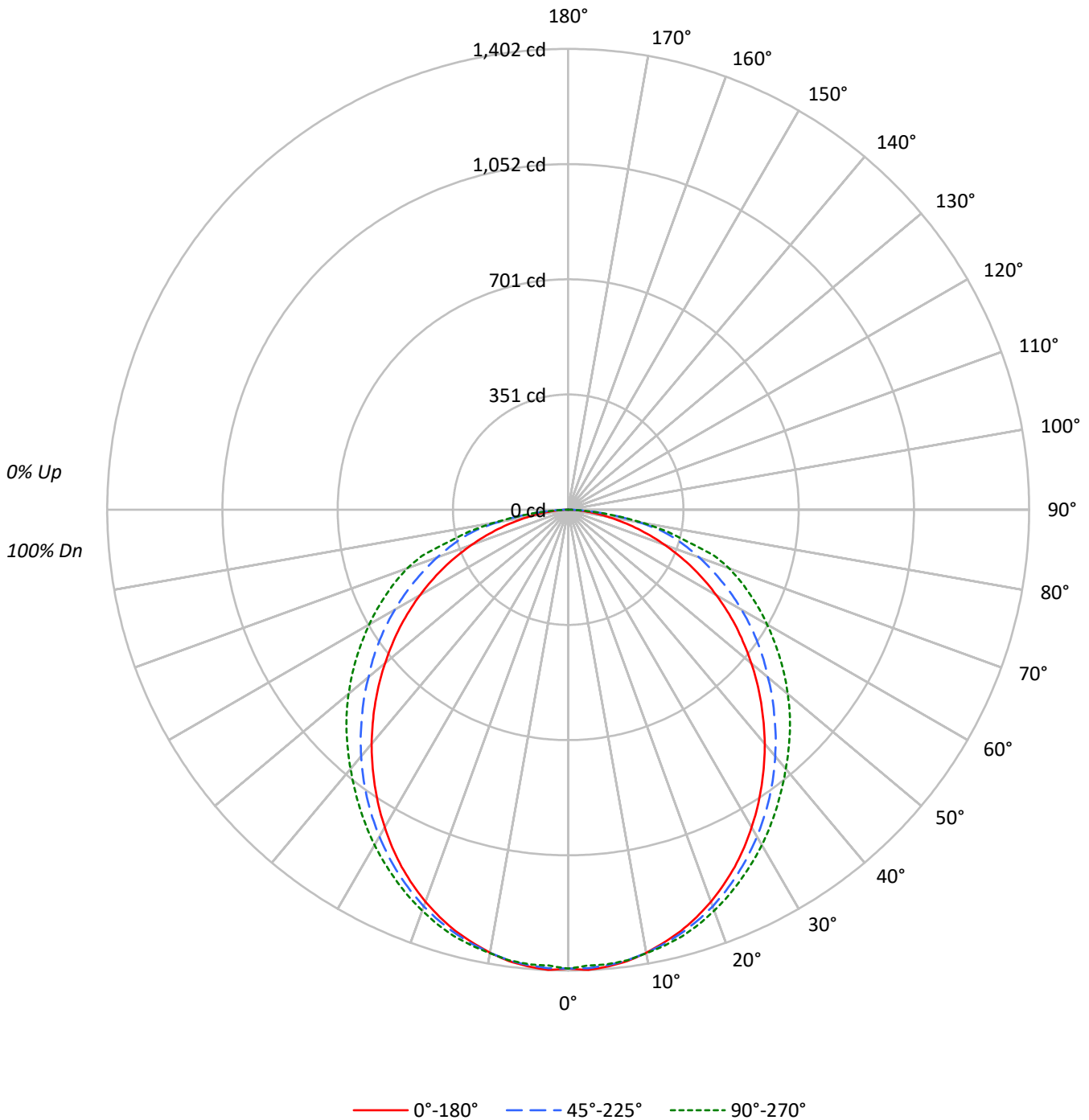
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1878	1878	1878
5°	1884	1878	1875
10°	1870	1870	1872
15°	1848	1857	1871
20°	1818	1839	1859
25°	1779	1814	1844
30°	1733	1784	1830
35°	1685	1754	1817
40°	1634	1720	1809
45°	1578	1687	1814
50°	1522	1659	1825
55°	1467	1649	1844
60°	1400	1638	1880
65°	1327	1639	1943
70°	1227	1666	2047
75°	1097	1742	1947
80°	918	1667	1784
85°	693	1283	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	3.3
10°-20°	375.5	9.4
20°-30°	561.3	14.1
30°-40°	665.9	16.7
40°-50°	685.4	17.2
50°-60°	628.7	15.8
60°-70°	508.4	12.8
70°-80°	329.9	8.3
80°-90°	91.0	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°	1068.7	26.9
0°-40°	1734.6	43.6
0°-60°	3048.7	76.6
0°-90°	3978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1395	1385	1391	1389	1388	132
15°	1327	1321	1333	1339	1343	374
25°	1199	1200	1222	1233	1242	552
35°	1026	1034	1068	1091	1106	641
45°	830	843	887	929	953	640
55°	625	644	703	760	786	559
65°	417	441	515	583	610	412
75°	211	251	335	375	375	224
85°	45	76	83	80	79	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.1	1396.1	1396.1	1396.1	1396.1
2.5°	1401.5	1390.6	1396.1	1394.7	1387.9
5°	1394.7	1385.2	1390.6	1389.3	1387.9
7.5°	1385.2	1375.6	1382.5	1381.1	1382.5
10°	1368.8	1360.7	1368.8	1370.2	1370.2
12.5°	1348.4	1341.6	1352.5	1355.2	1357.9
15°	1326.6	1321.2	1333.4	1338.9	1343.0
17.5°	1299.4	1295.3	1310.3	1317.1	1322.5
20°	1269.4	1268.0	1284.4	1291.2	1298.0
22.5°	1235.4	1235.4	1254.4	1262.6	1272.1
25°	1198.6	1199.9	1221.7	1232.6	1242.2
27.5°	1159.1	1160.4	1186.3	1199.9	1210.8
30°	1115.5	1120.9	1148.2	1165.9	1178.1
32.5°	1071.9	1078.7	1108.7	1129.1	1142.7
35°	1025.6	1033.8	1067.8	1091.0	1106.0
37.5°	977.9	987.5	1024.2	1050.1	1067.8
40°	930.3	941.2	979.3	1009.3	1029.7
42.5°	879.9	892.1	934.3	969.8	991.6
45°	829.5	843.1	886.7	928.9	953.4
47.5°	779.1	795.4	841.7	888.0	913.9
50°	727.3	743.7	792.7	845.8	871.7
52.5°	675.6	694.6	749.1	803.6	829.5
55°	625.2	644.2	702.8	760.0	785.9
57.5°	573.4	592.5	656.5	716.4	742.3
60°	520.3	542.1	608.8	670.1	698.7
62.5°	468.5	491.7	562.5	627.9	655.1
65°	416.8	441.3	514.8	582.9	610.2
67.5°	363.7	392.3	468.5	538.0	566.6
70°	311.9	343.2	423.6	493.1	520.3
72.5°	261.5	295.6	378.6	449.5	465.8
75°	211.1	250.6	335.1	374.6	374.6
77.5°	163.4	207.0	286.0	301.0	309.2
80°	118.5	166.2	215.2	232.9	230.2
82.5°	79.0	126.7	153.9	153.9	149.8
85°	44.9	76.3	83.1	80.4	79.0
87.5°	19.1	28.6	25.9	20.4	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)