

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: P260886

Luminaire Tested: **24CZ-LD5-55-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260886
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-LD5-55-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5029.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

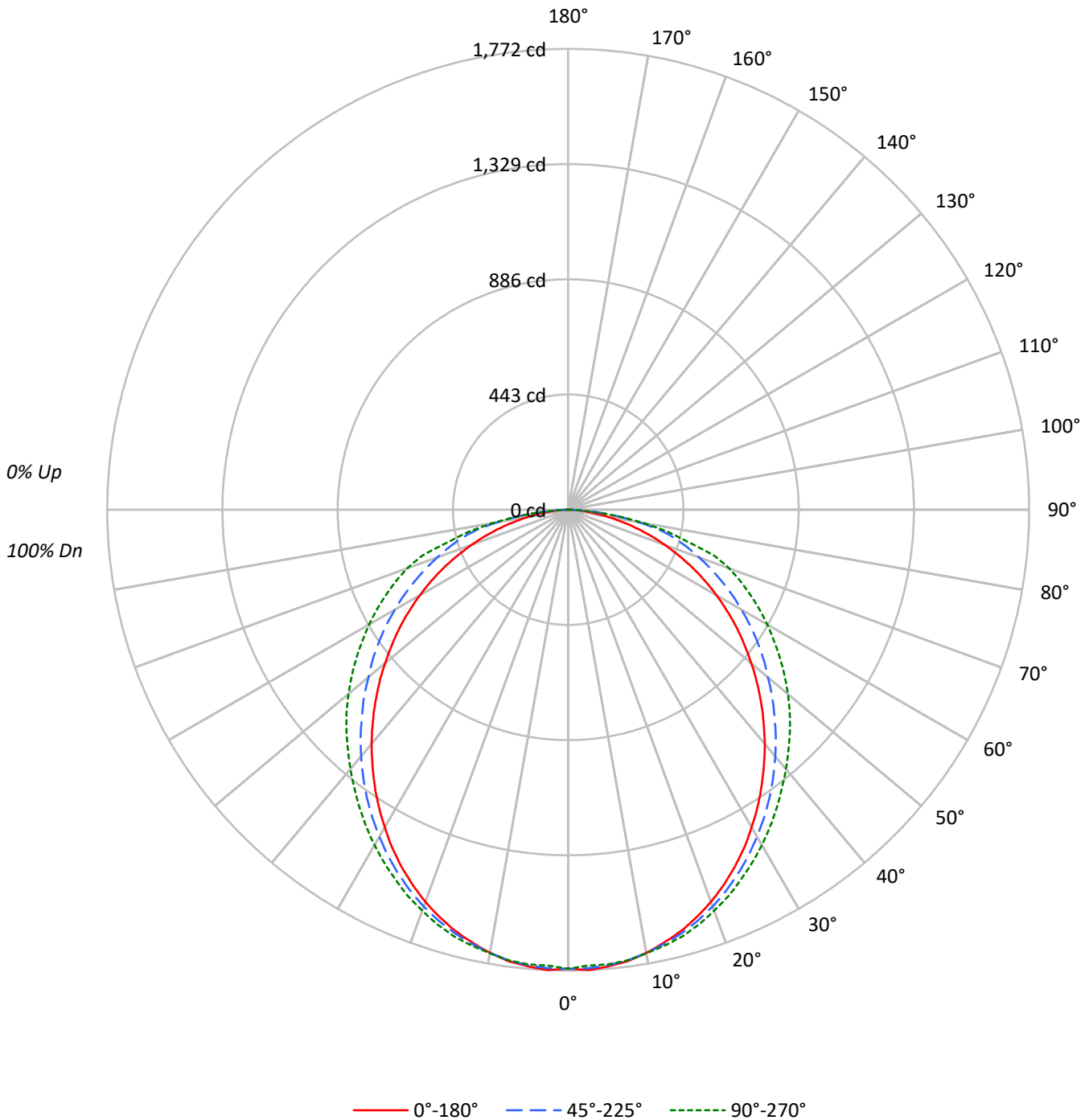
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2375	2375	2375
5°	2381	2374	2370
10°	2364	2364	2367
15°	2336	2348	2365
20°	2298	2325	2350
25°	2249	2293	2331
30°	2191	2255	2314
35°	2130	2217	2297
40°	2066	2174	2286
45°	1995	2133	2293
50°	1925	2098	2307
55°	1854	2084	2331
60°	1770	2071	2377
65°	1677	2072	2456
70°	1551	2107	2588
75°	1387	2202	2462
80°	1161	2108	2255
85°	877	1621	1542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	3.3
10°-20°	474.7	9.4
20°-30°	709.6	14.1
30°-40°	841.8	16.7
40°-50°	866.4	17.2
50°-60°	794.9	15.8
60°-70°	642.7	12.8
70°-80°	417.1	8.3
80°-90°	115.0	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°	1351.1	26.9
0°-40°	2192.9	43.6
0°-60°	3854.2	76.6
0°-90°	5029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1763	1751	1758	1756	1755	167
15°	1677	1670	1686	1693	1698	472
25°	1515	1517	1544	1558	1570	697
35°	1297	1307	1350	1379	1398	811
45°	1049	1066	1121	1174	1205	809
55°	790	814	888	961	994	706
65°	527	558	651	737	771	521
75°	267	317	424	474	474	284
85°	57	96	105	102	100	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1764.9	1764.9	1764.9	1764.9	1764.9
2.5°	1771.8	1758.0	1764.9	1763.2	1754.6
5°	1763.2	1751.1	1758.0	1756.3	1754.6
7.5°	1751.1	1739.1	1747.7	1746.0	1747.7
10°	1730.5	1720.1	1730.5	1732.2	1732.2
12.5°	1704.7	1696.0	1709.8	1713.3	1716.7
15°	1677.1	1670.2	1685.7	1692.6	1697.8
17.5°	1642.7	1637.5	1656.4	1665.0	1671.9
20°	1604.8	1603.1	1623.7	1632.3	1640.9
22.5°	1561.7	1561.7	1585.8	1596.2	1608.2
25°	1515.2	1517.0	1544.5	1558.3	1570.3
27.5°	1465.3	1467.0	1499.7	1517.0	1530.7
30°	1410.2	1417.1	1451.5	1473.9	1489.4
32.5°	1355.1	1363.7	1401.6	1427.4	1444.6
35°	1296.6	1306.9	1349.9	1379.2	1398.2
37.5°	1236.3	1248.4	1294.8	1327.6	1349.9
40°	1176.0	1189.8	1238.0	1275.9	1301.7
42.5°	1112.3	1127.8	1181.2	1226.0	1253.5
45°	1048.6	1065.8	1120.9	1174.3	1205.3
47.5°	984.9	1005.6	1064.1	1122.7	1155.4
50°	919.5	940.1	1002.1	1069.3	1102.0
52.5°	854.0	878.2	947.0	1015.9	1048.6
55°	790.3	814.4	888.5	960.8	993.5
57.5°	724.9	749.0	829.9	905.7	938.4
60°	657.8	685.3	769.7	847.2	883.3
62.5°	592.3	621.6	711.1	793.8	828.2
65°	526.9	557.9	650.9	737.0	771.4
67.5°	459.7	495.9	592.3	680.1	716.3
70°	394.3	433.9	535.5	623.3	657.8
72.5°	330.6	373.6	478.7	568.2	588.9
75°	266.9	316.8	423.6	473.5	473.5
77.5°	206.6	261.7	361.6	380.5	390.9
80°	149.8	210.1	272.1	294.4	291.0
82.5°	99.9	160.1	194.6	194.6	189.4
85°	56.8	96.4	105.0	101.6	99.9
87.5°	24.1	36.2	32.7	25.8	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)