

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: P260869

Luminaire Tested: **24CZ-LD5-45-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260869
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-LD5-45-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4146.0 lumens
Efficiency: N/A
Efficacy: 128.8 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

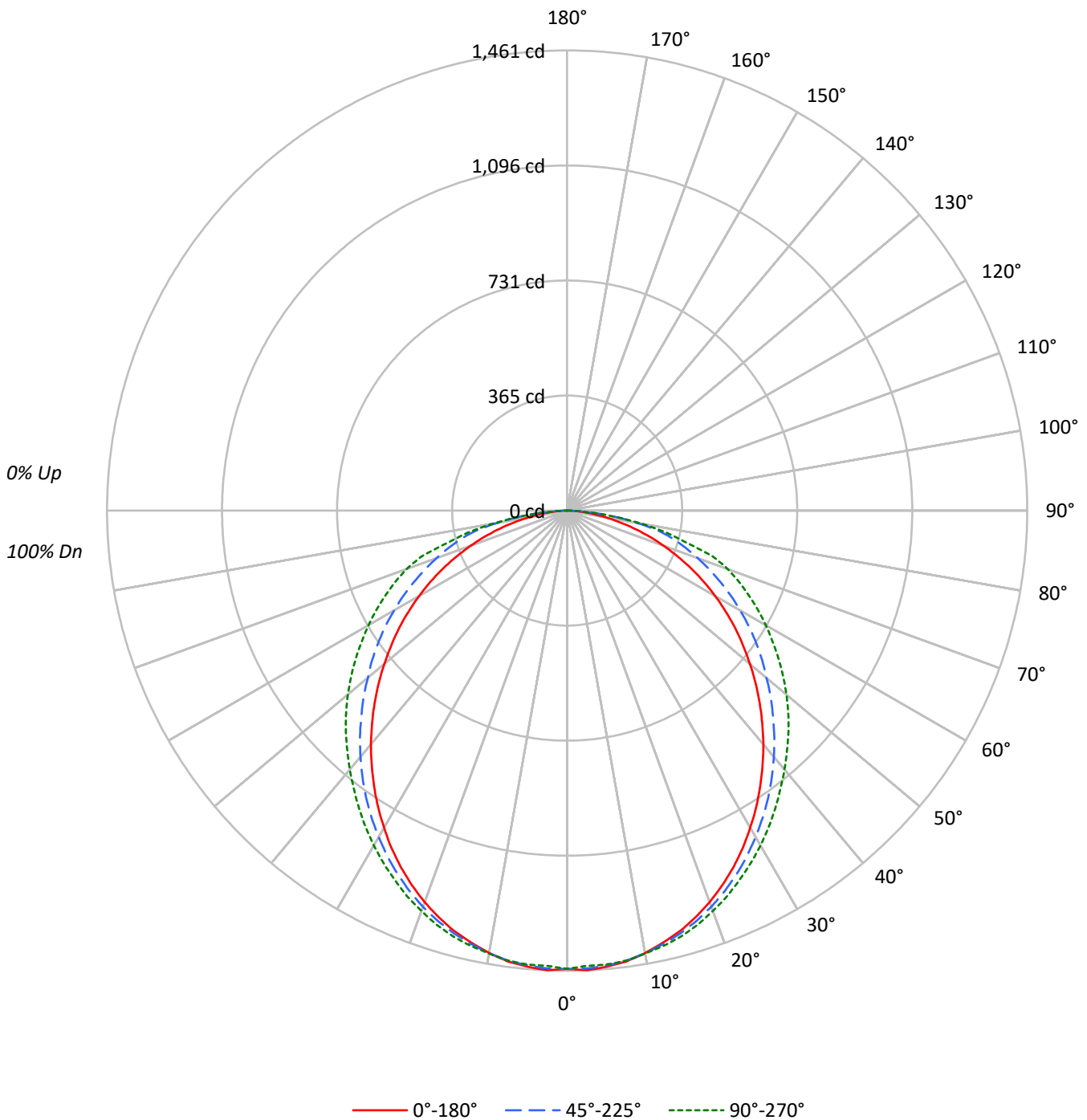
Input Watts (W): 32.178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1958	1958	1958
5°	1963	1958	1954
10°	1949	1949	1951
15°	1926	1936	1950
20°	1894	1917	1937
25°	1855	1890	1922
30°	1806	1859	1908
35°	1756	1828	1893
40°	1703	1793	1885
45°	1645	1758	1891
50°	1587	1729	1902
55°	1529	1718	1921
60°	1459	1707	1960
65°	1383	1708	2025
70°	1279	1737	2133
75°	1144	1815	2030
80°	957	1738	1859
85°	722	1337	1271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	3.3
10°-20°	391.3	9.4
20°-30°	585.0	14.1
30°-40°	694.0	16.7
40°-50°	714.3	17.2
50°-60°	655.3	15.8
60°-70°	529.8	12.8
70°-80°	343.9	8.3
80°-90°	94.8	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°	1113.8	26.9
0°-40°	1807.9	43.6
0°-60°	3177.5	76.6
0°-90°	4146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1455	1455	1455	1455	1455	
5°	1454	1444	1449	1448	1446	138
15°	1383	1377	1390	1395	1400	389
25°	1249	1251	1273	1285	1295	575
35°	1069	1077	1113	1137	1153	668
45°	864	879	924	968	994	667
55°	652	671	732	792	819	582
65°	434	460	537	608	636	429
75°	220	261	349	390	390	234
85°	47	80	87	84	82	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1460.7	1449.4	1455.0	1453.6	1446.5
5°	1453.6	1443.7	1449.4	1447.9	1446.5
7.5°	1443.7	1433.7	1440.8	1439.4	1440.8
10°	1426.6	1418.1	1426.6	1428.1	1428.1
12.5°	1405.3	1398.2	1409.6	1412.4	1415.3
15°	1382.6	1377.0	1389.7	1395.4	1399.7
17.5°	1354.2	1350.0	1365.6	1372.7	1378.4
20°	1323.0	1321.6	1338.6	1345.7	1352.8
22.5°	1287.5	1287.5	1307.4	1315.9	1325.9
25°	1249.2	1250.6	1273.3	1284.7	1294.6
27.5°	1208.0	1209.4	1236.4	1250.6	1262.0
30°	1162.6	1168.3	1196.7	1215.1	1227.9
32.5°	1117.2	1124.3	1155.5	1176.8	1191.0
35°	1068.9	1077.4	1112.9	1137.1	1152.7
37.5°	1019.2	1029.2	1067.5	1094.5	1112.9
40°	969.5	980.9	1020.7	1051.9	1073.2
42.5°	917.0	929.8	973.8	1010.7	1033.4
45°	864.5	878.7	924.1	968.1	993.7
47.5°	812.0	829.0	877.3	925.5	952.5
50°	758.0	775.1	826.2	881.5	908.5
52.5°	704.1	724.0	780.7	837.5	864.5
55°	651.6	671.4	732.5	792.1	819.1
57.5°	597.6	617.5	684.2	746.7	773.7
60°	542.3	565.0	634.5	698.4	728.2
62.5°	488.3	512.5	586.3	654.4	682.8
65°	434.4	459.9	536.6	607.6	636.0
67.5°	379.0	408.8	488.3	560.7	590.5
70°	325.1	357.7	441.5	513.9	542.3
72.5°	272.6	308.0	394.6	468.4	485.5
75°	220.0	261.2	349.2	390.4	390.4
77.5°	170.3	215.8	298.1	313.7	322.2
80°	123.5	173.2	224.3	242.7	239.9
82.5°	82.3	132.0	160.4	160.4	156.1
85°	46.8	79.5	86.6	83.8	82.3
87.5°	19.9	29.8	27.0	21.3	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)