

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: P260736

Luminaire Tested: **24CZ-LD5-45-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260736
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-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4676.0 lumens
Efficiency: N/A
Efficacy: 144.9 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

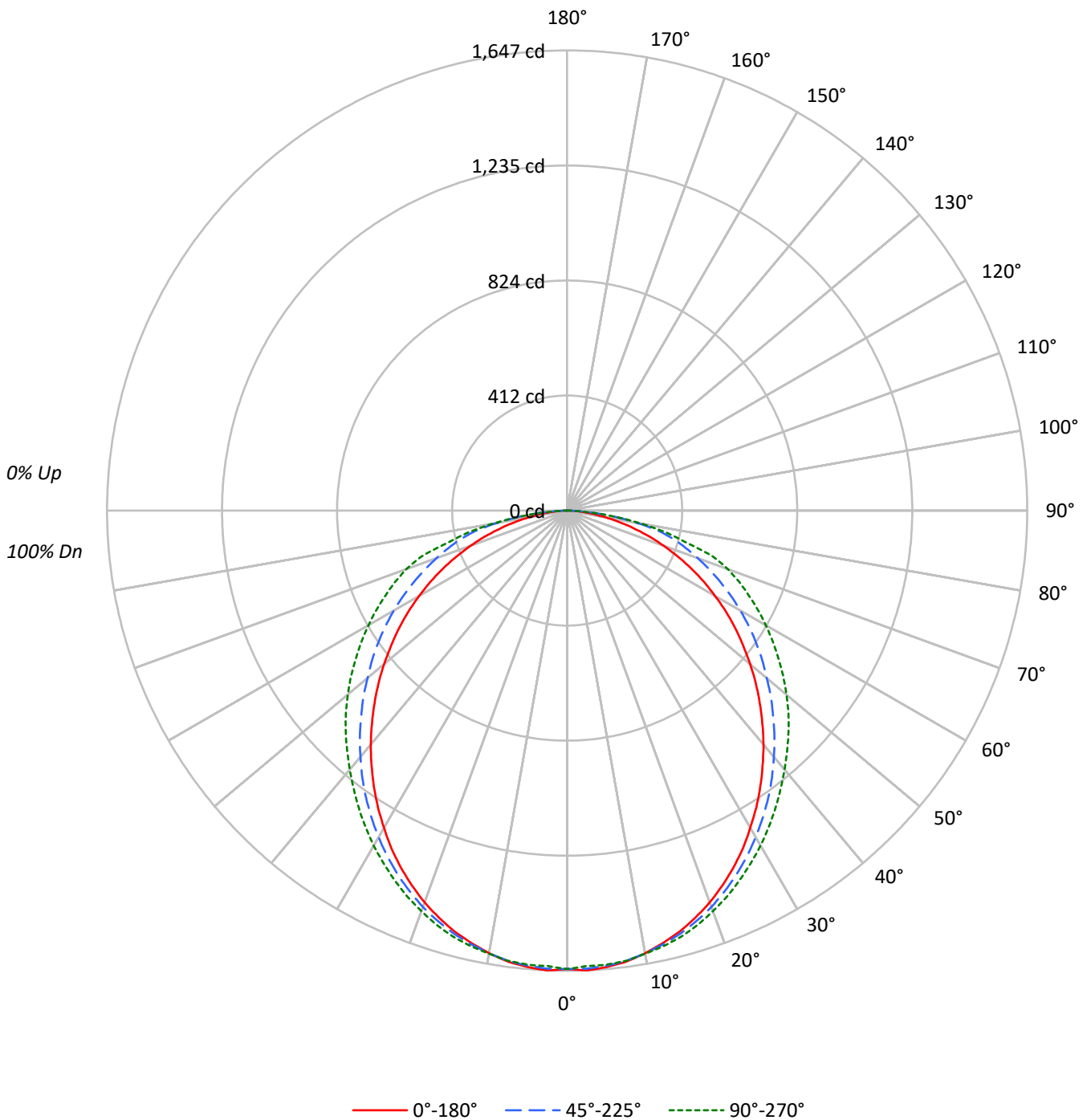
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2208	2208	2208
5°	2214	2208	2203
10°	2198	2198	2200
15°	2172	2183	2199
20°	2136	2162	2185
25°	2092	2132	2168
30°	2037	2097	2152
35°	1980	2062	2135
40°	1921	2022	2126
45°	1855	1983	2132
50°	1789	1950	2145
55°	1724	1938	2167
60°	1646	1926	2210
65°	1560	1927	2284
70°	1442	1959	2406
75°	1290	2047	2289
80°	1079	1960	2097
85°	815	1508	1434



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	3.3
10°-20°	441.4	9.4
20°-30°	659.8	14.1
30°-40°	782.7	16.7
40°-50°	805.6	17.2
50°-60°	739.1	15.8
60°-70°	597.6	12.8
70°-80°	387.8	8.3
80°-90°	106.9	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°	1256.2	26.9
0°-40°	2039.0	43.6
0°-60°	3583.7	76.6
0°-90°	4676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1641	1641	1641	1641	1641	
5°	1639	1628	1635	1633	1631	156
15°	1559	1553	1567	1574	1579	439
25°	1409	1410	1436	1449	1460	648
35°	1206	1215	1255	1282	1300	754
45°	975	991	1042	1092	1121	752
55°	735	757	826	893	924	656
65°	490	519	605	685	717	484
75°	248	295	394	440	440	264
85°	53	90	98	94	93	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1641.0	1641.0	1641.0	1641.0	1641.0
2.5°	1647.4	1634.6	1641.0	1639.4	1631.4
5°	1639.4	1628.2	1634.6	1633.0	1631.4
7.5°	1628.2	1617.0	1625.0	1623.4	1625.0
10°	1609.0	1599.4	1609.0	1610.6	1610.6
12.5°	1585.0	1577.0	1589.8	1593.0	1596.2
15°	1559.4	1553.0	1567.4	1573.8	1578.6
17.5°	1527.4	1522.6	1540.2	1548.2	1554.6
20°	1492.1	1490.5	1509.8	1517.8	1525.8
22.5°	1452.1	1452.1	1474.5	1484.1	1495.3
25°	1408.9	1410.5	1436.1	1448.9	1460.1
27.5°	1362.5	1364.1	1394.5	1410.5	1423.3
30°	1311.2	1317.6	1349.6	1370.5	1384.9
32.5°	1260.0	1268.0	1303.2	1327.2	1343.2
35°	1205.6	1215.2	1255.2	1282.4	1300.0
37.5°	1149.5	1160.7	1204.0	1234.4	1255.2
40°	1093.5	1106.3	1151.1	1186.3	1210.4
42.5°	1034.3	1048.7	1098.3	1139.9	1165.5
45°	975.0	991.0	1042.3	1091.9	1120.7
47.5°	915.8	935.0	989.4	1043.9	1074.3
50°	854.9	874.2	931.8	994.2	1024.6
52.5°	794.1	816.5	880.6	944.6	975.0
55°	734.9	757.3	826.1	893.4	923.8
57.5°	674.0	696.4	771.7	842.1	872.5
60°	611.6	637.2	715.7	787.7	821.3
62.5°	550.7	578.0	661.2	738.1	770.1
65°	489.9	518.7	605.2	685.2	717.3
67.5°	427.5	461.1	550.7	632.4	666.0
70°	366.6	403.5	497.9	579.6	611.6
72.5°	307.4	347.4	445.1	528.3	547.5
75°	248.2	294.6	393.8	440.3	440.3
77.5°	192.1	243.4	336.2	353.8	363.4
80°	139.3	195.3	253.0	273.8	270.6
82.5°	92.9	148.9	180.9	180.9	176.1
85°	52.8	89.7	97.7	94.5	92.9
87.5°	22.4	33.6	30.4	24.0	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)