

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: P263729

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5447.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

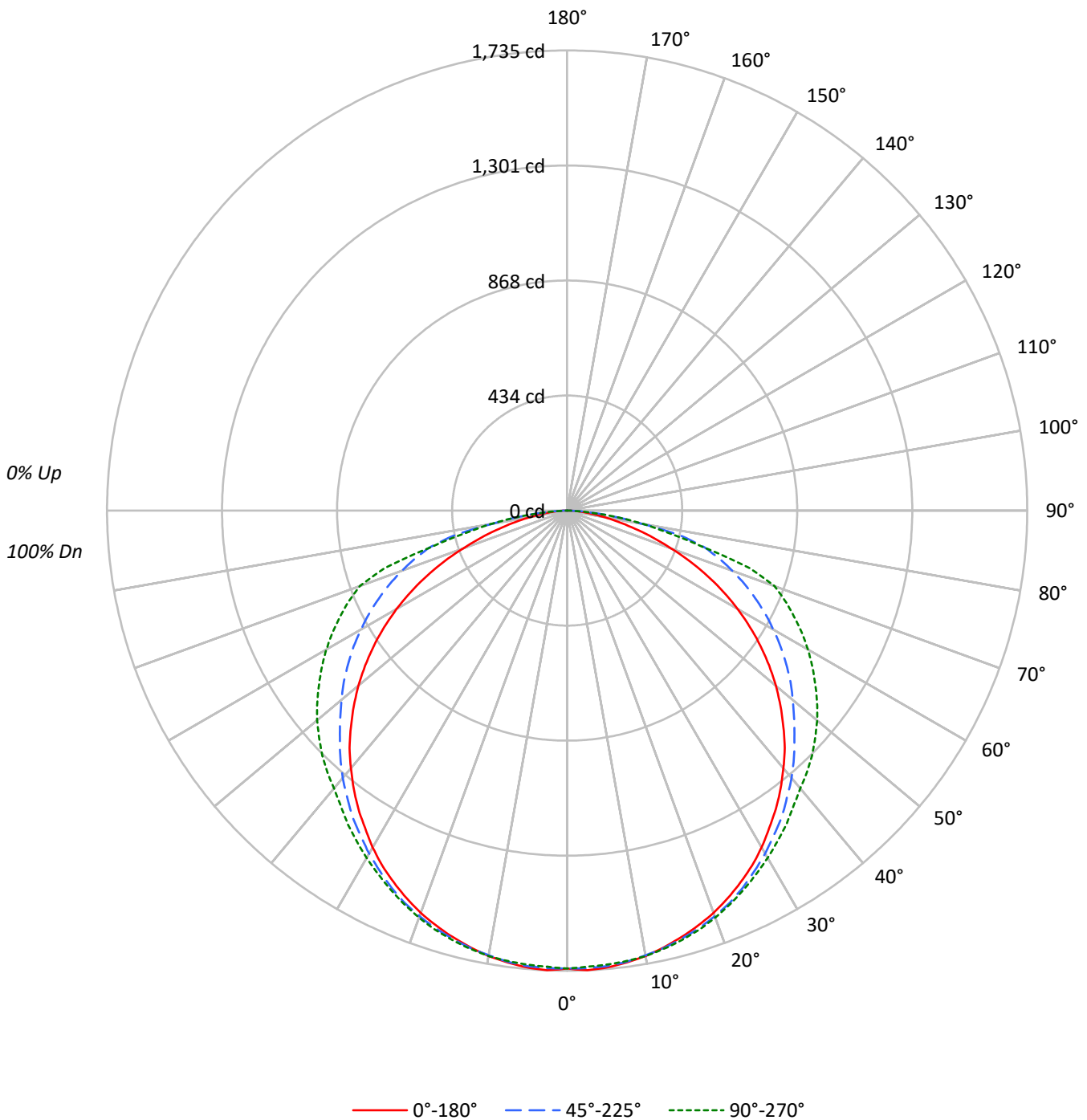
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2323	2323	2323
5°	2336	2329	2321
10°	2330	2326	2330
15°	2319	2327	2334
20°	2311	2330	2338
25°	2297	2329	2341
30°	2279	2320	2349
35°	2255	2317	2369
40°	2227	2312	2402
45°	2194	2306	2485
50°	2150	2324	2576
55°	2088	2365	2679
60°	1999	2417	2821
65°	1861	2493	3005
70°	1646	2605	3270
75°	1380	2788	2746
80°	1101	2202	2285
85°	869	1490	1366



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	3.0
10°-20°	471.3	8.7
20°-30°	719.9	13.2
30°-40°	880.2	16.2
40°-50°	942.1	17.3
50°-60°	903.7	16.6
60°-70°	763.0	14.0
70°-80°	487.6	9.0
80°-90°	115.3	2.1
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°	1355.1	24.9
0°-40°	2235.2	41.0
0°-60°	4081.0	74.9
0°-90°	5447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1729	1719	1724	1721	1719	164
15°	1665	1660	1670	1676	1676	470
25°	1547	1544	1568	1574	1577	713
35°	1373	1384	1410	1429	1442	858
45°	1153	1172	1212	1268	1306	889
55°	890	920	1008	1099	1142	794
65°	584	641	783	893	944	576
75°	265	378	536	547	528	286
85°	56	94	96	94	88	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.7	1726.7	1726.7	1726.7	1726.7
2.5°	1734.8	1724.1	1726.7	1726.7	1721.4
5°	1729.4	1718.7	1724.1	1721.4	1718.7
7.5°	1718.7	1710.7	1716.0	1716.0	1713.3
10°	1705.3	1697.3	1702.6	1705.3	1705.3
12.5°	1686.5	1681.2	1689.2	1689.2	1691.9
15°	1665.1	1659.7	1670.4	1675.8	1675.8
17.5°	1640.9	1638.3	1651.7	1654.3	1657.0
20°	1614.1	1611.4	1627.5	1627.5	1632.9
22.5°	1582.0	1579.3	1600.7	1600.7	1606.1
25°	1547.1	1544.4	1568.5	1573.9	1576.6
27.5°	1509.6	1506.9	1531.0	1539.1	1544.4
30°	1466.7	1466.7	1493.5	1504.2	1512.2
32.5°	1418.4	1426.4	1450.6	1466.7	1477.4
35°	1372.8	1383.5	1410.4	1429.1	1442.5
37.5°	1321.9	1332.6	1362.1	1386.2	1402.3
40°	1268.2	1281.7	1316.5	1343.3	1367.5
42.5°	1214.6	1228.0	1265.6	1305.8	1338.0
45°	1153.0	1171.7	1211.9	1268.2	1305.8
47.5°	1091.3	1110.1	1161.0	1230.7	1268.2
50°	1026.9	1048.4	1110.1	1190.5	1230.7
52.5°	959.9	984.0	1061.8	1147.6	1187.8
55°	890.2	919.7	1008.2	1099.3	1142.2
57.5°	817.8	850.0	954.5	1051.1	1096.6
60°	742.7	782.9	898.2	1000.1	1048.4
62.5°	665.0	713.2	841.9	946.5	997.4
65°	584.5	640.8	782.9	892.9	943.8
67.5°	501.4	576.5	723.9	839.2	890.2
70°	418.3	506.8	662.3	780.3	831.2
72.5°	340.5	442.4	600.6	710.5	721.3
75°	265.4	378.1	536.3	547.0	528.2
77.5°	198.4	313.7	442.4	394.1	391.5
80°	142.1	252.0	284.2	292.3	294.9
82.5°	93.8	190.4	185.0	190.4	187.7
85°	56.3	93.8	96.5	93.8	88.5
87.5°	26.8	34.9	26.8	24.1	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)