

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: P263731

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263731
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5476.0 lumens
Efficiency: N/A
Efficacy: 89.8 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

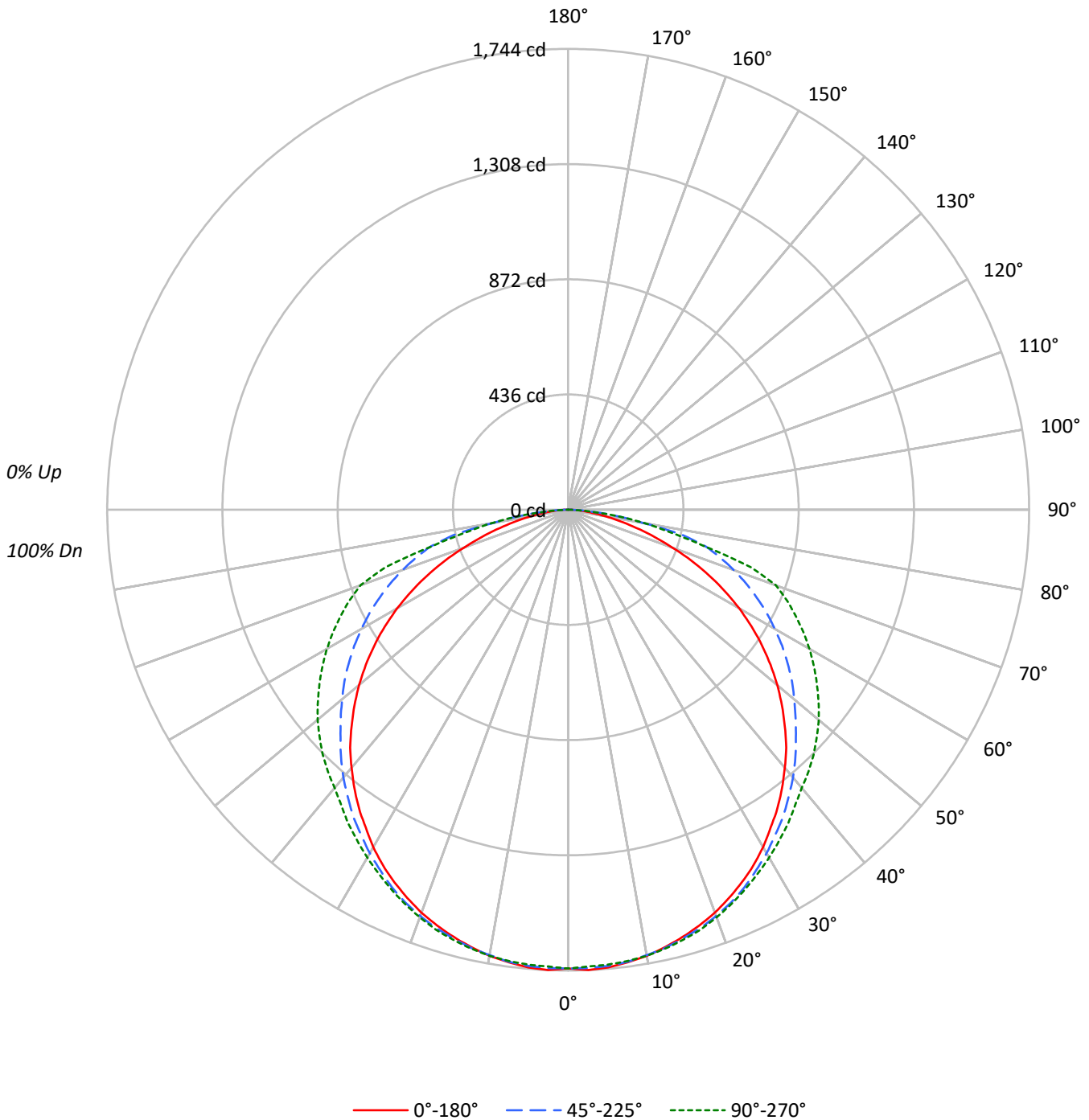
Input Watts (W): 61.008
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2336	2336	2336
5°	2348	2341	2334
10°	2342	2339	2342
15°	2332	2339	2347
20°	2323	2343	2351
25°	2309	2341	2353
30°	2291	2333	2362
35°	2267	2329	2382
40°	2239	2325	2415
45°	2206	2318	2498
50°	2161	2336	2590
55°	2099	2377	2694
60°	2009	2430	2836
65°	1871	2506	3021
70°	1654	2619	3287
75°	1387	2803	2760
80°	1107	2214	2297
85°	874	1497	1374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	3.0
10°-20°	473.8	8.7
20°-30°	723.8	13.2
30°-40°	884.9	16.2
40°-50°	947.1	17.3
50°-60°	908.5	16.6
60°-70°	767.1	14.0
70°-80°	490.2	9.0
80°-90°	115.9	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°	1362.3	24.9
0°-40°	2247.1	41.0
0°-60°	4102.8	74.9
0°-90°	5476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1736	1736	1736	1736	1736	
5°	1739	1728	1733	1730	1728	165
15°	1674	1668	1679	1685	1685	473
25°	1555	1553	1577	1582	1585	717
35°	1380	1391	1418	1437	1450	863
45°	1159	1178	1218	1275	1313	894
55°	895	925	1014	1105	1148	799
65°	588	644	787	898	949	580
75°	267	380	539	550	531	287
85°	57	94	97	94	89	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1735.9	1735.9	1735.9	1735.9	1735.9
2.5°	1744.0	1733.2	1735.9	1735.9	1730.5
5°	1738.6	1727.9	1733.2	1730.5	1727.9
7.5°	1727.9	1719.8	1725.2	1725.2	1722.5
10°	1714.4	1706.3	1711.7	1714.4	1714.4
12.5°	1695.5	1690.1	1698.2	1698.2	1700.9
15°	1673.9	1668.5	1679.3	1684.7	1684.7
17.5°	1649.7	1647.0	1660.5	1663.2	1665.9
20°	1622.7	1620.0	1636.2	1636.2	1641.6
22.5°	1590.4	1587.7	1609.2	1609.2	1614.6
25°	1555.3	1552.6	1576.9	1582.3	1585.0
27.5°	1517.6	1514.9	1539.2	1547.2	1552.6
30°	1474.5	1474.5	1501.4	1512.2	1520.3
32.5°	1425.9	1434.0	1458.3	1474.5	1485.3
35°	1380.1	1390.9	1417.9	1436.7	1450.2
37.5°	1328.9	1339.7	1369.3	1393.6	1409.8
40°	1275.0	1288.5	1323.5	1350.5	1374.7
42.5°	1221.1	1234.6	1272.3	1312.7	1345.1
45°	1159.1	1178.0	1218.4	1275.0	1312.7
47.5°	1097.1	1116.0	1167.2	1237.3	1275.0
50°	1032.4	1054.0	1116.0	1196.8	1237.3
52.5°	965.0	989.3	1067.4	1153.7	1194.1
55°	894.9	924.6	1013.5	1105.2	1148.3
57.5°	822.1	854.5	959.6	1056.7	1102.5
60°	746.7	787.1	903.0	1005.4	1054.0
62.5°	668.5	717.0	846.4	951.5	1002.7
65°	587.6	644.2	787.1	897.6	948.8
67.5°	504.1	579.5	727.8	843.7	894.9
70°	420.5	509.5	665.8	784.4	835.6
72.5°	342.3	444.8	603.8	714.3	725.1
75°	266.9	380.1	539.1	549.9	531.0
77.5°	199.5	315.4	444.8	396.2	393.6
80°	142.9	253.4	285.7	293.8	296.5
82.5°	94.3	191.4	186.0	191.4	188.7
85°	56.6	94.3	97.0	94.3	89.0
87.5°	27.0	35.0	27.0	24.3	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)