

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: P263702

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263702  
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-LD5-60-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: 4359.0 lumens  
Efficiency: N/A  
Efficacy: 95.8 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

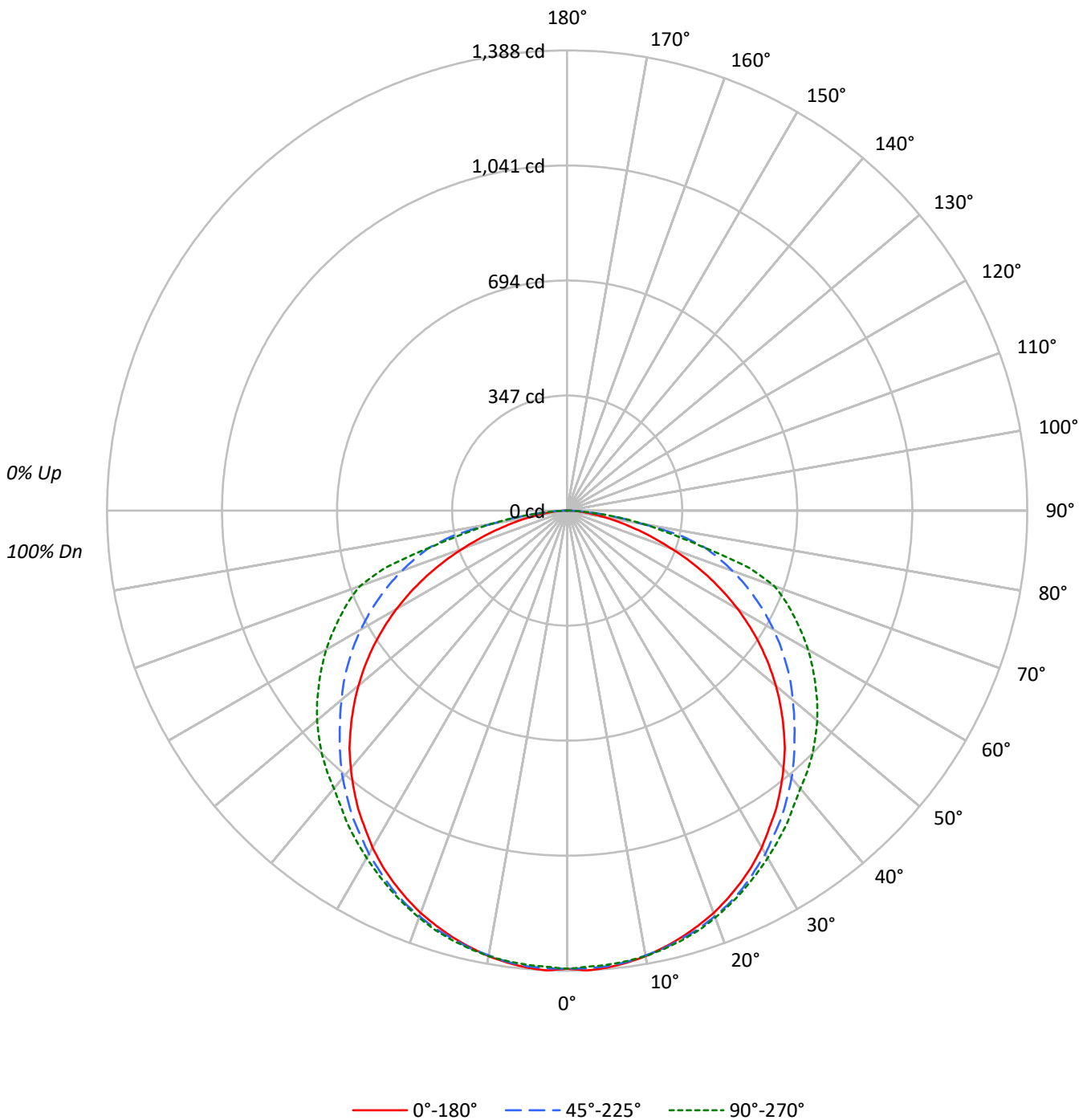
Input Watts (W): 45.477  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1859	1859	1859
5°	1869	1863	1858
10°	1865	1862	1865
15°	1856	1862	1868
20°	1850	1865	1871
25°	1838	1863	1873
30°	1824	1857	1880
35°	1804	1854	1896
40°	1783	1850	1922
45°	1756	1846	1988
50°	1720	1859	2062
55°	1671	1893	2144
60°	1600	1934	2258
65°	1489	1995	2405
70°	1317	2085	2617
75°	1104	2231	2197
80°	881	1762	1829
85°	696	1192	1093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.1	3.0
10°-20°	377.2	8.7
20°-30°	576.1	13.2
30°-40°	704.4	16.2
40°-50°	753.9	17.3
50°-60°	723.2	16.6
60°-70°	610.6	14.0
70°-80°	390.2	9.0
80°-90°	92.3	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°	1084.4	24.9
0°-40°	1788.7	41.0
0°-60°	3265.9	74.9
0°-90°	4359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4359.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1384	1375	1380	1378	1375	131
15°	1332	1328	1337	1341	1341	376
25°	1238	1236	1255	1260	1262	571
35°	1099	1107	1129	1144	1154	687
45°	923	938	970	1015	1045	712
55°	712	736	807	880	914	636
65°	468	513	626	714	755	461
75°	212	302	429	438	423	229
85°	45	75	77	75	71	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1381.8	1381.8	1381.8	1381.8	1381.8
2.5°	1388.3	1379.7	1381.8	1381.8	1377.5
5°	1384.0	1375.4	1379.7	1377.5	1375.4
7.5°	1375.4	1369.0	1373.3	1373.3	1371.1
10°	1364.7	1358.2	1362.5	1364.7	1364.7
12.5°	1349.7	1345.4	1351.8	1351.8	1353.9
15°	1332.5	1328.2	1336.8	1341.1	1341.1
17.5°	1313.2	1311.0	1321.8	1323.9	1326.1
20°	1291.7	1289.6	1302.4	1302.4	1306.7
22.5°	1266.0	1263.8	1281.0	1281.0	1285.3
25°	1238.1	1235.9	1255.2	1259.5	1261.7
27.5°	1208.0	1205.9	1225.2	1231.6	1235.9
30°	1173.7	1173.7	1195.2	1203.7	1210.2
32.5°	1135.1	1141.5	1160.8	1173.7	1182.3
35°	1098.6	1107.2	1128.6	1143.7	1154.4
37.5°	1057.8	1066.4	1090.0	1109.3	1122.2
40°	1014.9	1025.7	1053.5	1075.0	1094.3
42.5°	972.0	982.7	1012.8	1045.0	1070.7
45°	922.7	937.7	969.9	1014.9	1045.0
47.5°	873.3	888.3	929.1	984.9	1014.9
50°	821.8	839.0	888.3	952.7	984.9
52.5°	768.2	787.5	849.7	918.4	950.6
55°	712.4	736.0	806.8	879.7	914.1
57.5°	654.4	680.2	763.9	841.1	877.6
60°	594.4	626.5	718.8	800.4	839.0
62.5°	532.1	570.8	673.8	757.4	798.2
65°	467.8	512.8	626.5	714.5	755.3
67.5°	401.2	461.3	579.3	671.6	712.4
70°	334.7	405.5	530.0	624.4	665.2
72.5°	272.5	354.0	480.6	568.6	577.2
75°	212.4	302.5	429.1	437.7	422.7
77.5°	158.8	251.0	354.0	315.4	313.3
80°	113.7	201.7	227.4	233.9	236.0
82.5°	75.1	152.3	148.1	152.3	150.2
85°	45.1	75.1	77.2	75.1	70.8
87.5°	21.5	27.9	21.5	19.3	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)