

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: P263524

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263524  
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-L83050-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4402.0 lumens  
Efficiency: N/A  
Efficacy: 97.2 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

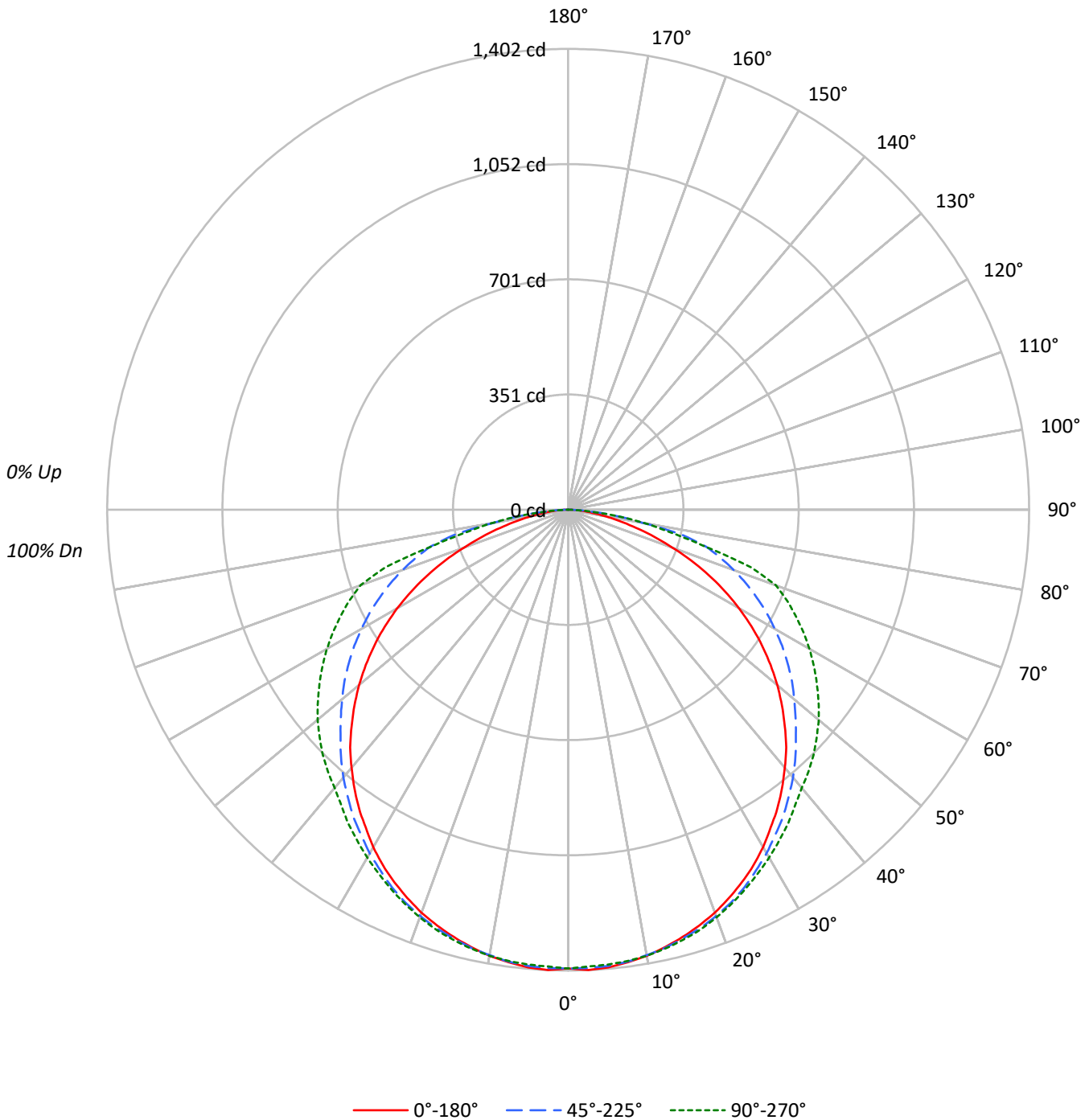
Input Watts (W): 45.286164  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1878	1878	1878
5°	1888	1882	1876
10°	1883	1880	1883
15°	1874	1880	1886
20°	1868	1883	1889
25°	1856	1882	1892
30°	1842	1875	1899
35°	1822	1872	1915
40°	1800	1869	1941
45°	1773	1864	2008
50°	1737	1878	2082
55°	1688	1911	2165
60°	1615	1953	2280
65°	1504	2014	2428
70°	1330	2105	2642
75°	1115	2253	2219
80°	890	1780	1847
85°	702	1204	1104



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.4	3.0
10°-20°	380.9	8.7
20°-30°	581.8	13.2
30°-40°	711.3	16.2
40°-50°	761.4	17.3
50°-60°	730.3	16.6
60°-70°	616.6	14.0
70°-80°	394.1	9.0
80°-90°	93.2	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°	1095.1	24.9
0°-40°	1806.4	41.0
0°-60°	3298.1	74.9
0°-90°	4402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4402.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1398	1389	1393	1391	1389	133
15°	1346	1341	1350	1354	1354	380
25°	1250	1248	1268	1272	1274	576
35°	1109	1118	1140	1155	1166	694
45°	932	947	979	1025	1055	719
55°	719	743	815	888	923	642
65°	472	518	633	722	763	466
75°	214	306	433	442	427	231
85°	46	76	78	76	72	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1395.5	1395.5	1395.5	1395.5	1395.5
2.5°	1402.0	1393.3	1395.5	1395.5	1391.1
5°	1397.6	1389.0	1393.3	1391.1	1389.0
7.5°	1389.0	1382.5	1386.8	1386.8	1384.6
10°	1378.1	1371.6	1376.0	1378.1	1378.1
12.5°	1363.0	1358.6	1365.1	1365.1	1367.3
15°	1345.6	1341.3	1350.0	1354.3	1354.3
17.5°	1326.1	1324.0	1334.8	1337.0	1339.1
20°	1304.5	1302.3	1315.3	1315.3	1319.6
22.5°	1278.5	1276.3	1293.6	1293.6	1298.0
25°	1250.3	1248.1	1267.6	1272.0	1274.1
27.5°	1220.0	1217.8	1237.3	1243.8	1248.1
30°	1185.3	1185.3	1207.0	1215.6	1222.1
32.5°	1146.3	1152.8	1172.3	1185.3	1194.0
35°	1109.4	1118.1	1139.8	1154.9	1165.8
37.5°	1068.3	1076.9	1100.8	1120.3	1133.3
40°	1024.9	1035.8	1063.9	1085.6	1105.1
42.5°	981.6	992.4	1022.8	1055.3	1081.3
45°	931.8	946.9	979.4	1024.9	1055.3
47.5°	881.9	897.1	938.3	994.6	1024.9
50°	829.9	847.3	897.1	962.1	994.6
52.5°	775.7	795.2	858.1	927.4	959.9
55°	719.4	743.2	814.7	888.4	923.1
57.5°	660.9	686.9	771.4	849.4	886.3
60°	600.2	632.7	725.9	808.2	847.3
62.5°	537.4	576.4	680.4	764.9	806.1
65°	472.4	517.9	632.7	721.6	762.7
67.5°	405.2	465.9	585.1	678.2	719.4
70°	338.0	409.5	535.2	630.6	671.7
72.5°	275.2	357.5	485.4	574.2	582.9
75°	214.5	305.5	433.4	442.0	426.9
77.5°	160.3	253.5	357.5	318.5	316.4
80°	114.8	203.7	229.7	236.2	238.4
82.5°	75.8	153.8	149.5	153.8	151.7
85°	45.5	75.8	78.0	75.8	71.5
87.5°	21.7	28.2	21.7	19.5	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)