

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: P263701

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263701  
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-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4317.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

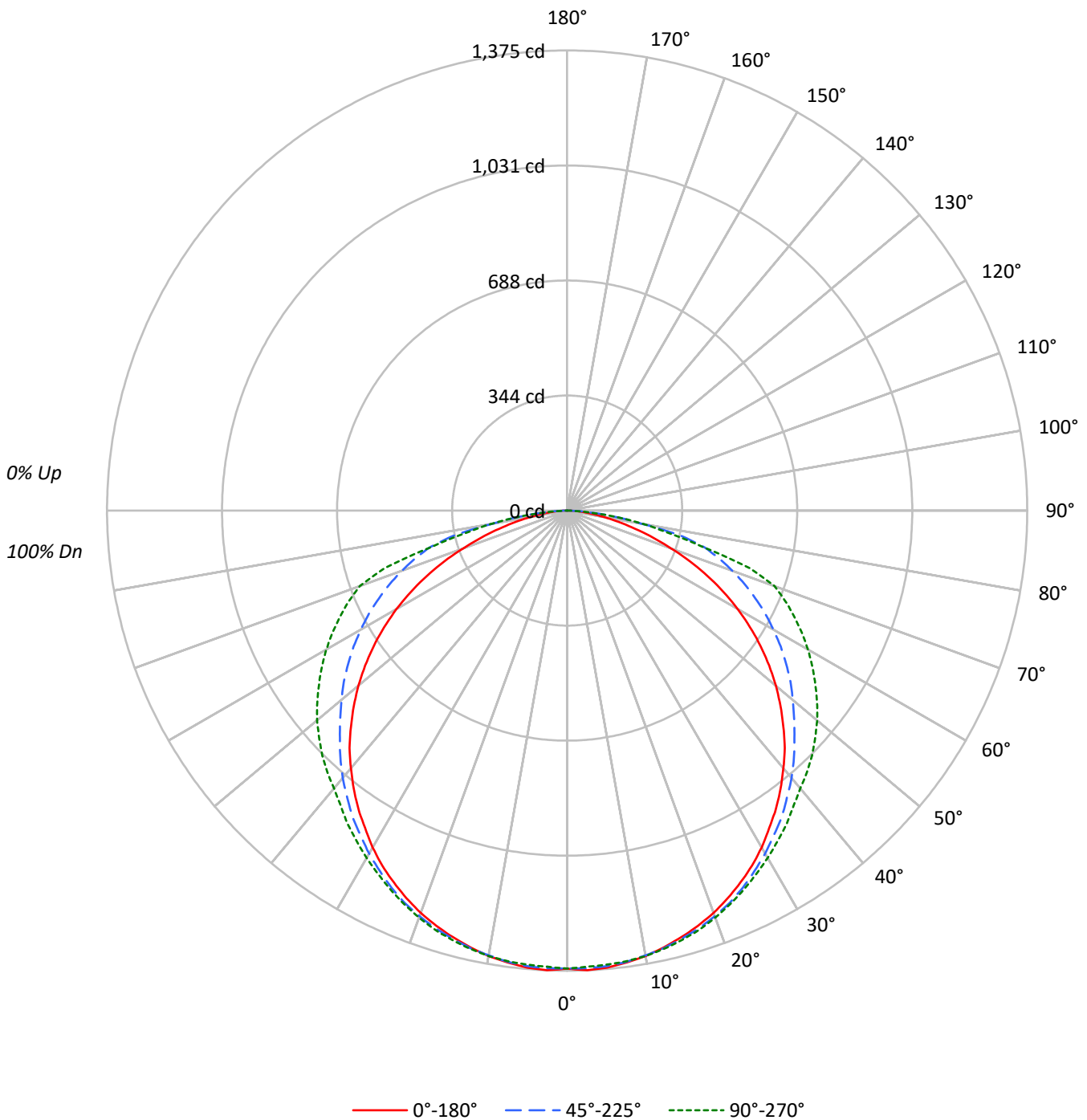
Input Watts (W): 45.291  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1841	1841	1841
5°	1851	1845	1840
10°	1846	1844	1846
15°	1838	1844	1850
20°	1832	1847	1853
25°	1820	1845	1855
30°	1806	1839	1862
35°	1787	1836	1878
40°	1765	1833	1904
45°	1739	1828	1969
50°	1704	1842	2042
55°	1655	1874	2124
60°	1584	1916	2236
65°	1475	1975	2381
70°	1304	2065	2592
75°	1094	2209	2176
80°	872	1746	1812
85°	689	1181	1082



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.8	3.0
10°-20°	373.6	8.7
20°-30°	570.6	13.2
30°-40°	697.6	16.2
40°-50°	746.7	17.3
50°-60°	716.2	16.6
60°-70°	604.7	14.0
70°-80°	386.5	9.0
80°-90°	91.4	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°	1073.9	24.9
0°-40°	1771.5	41.0
0°-60°	3234.4	74.9
0°-90°	4317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4317.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1371	1362	1366	1364	1362	130
15°	1320	1315	1324	1328	1328	373
25°	1226	1224	1243	1247	1250	565
35°	1088	1096	1118	1133	1143	680
45°	914	929	960	1005	1035	705
55°	706	729	799	871	905	630
65°	463	508	620	708	748	457
75°	210	300	425	434	419	226
85°	45	74	76	74	70	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1368.5	1368.5	1368.5	1368.5	1368.5
2.5°	1374.9	1366.4	1368.5	1368.5	1364.3
5°	1370.7	1362.1	1366.4	1364.3	1362.1
7.5°	1362.1	1355.8	1360.0	1360.0	1357.9
10°	1351.5	1345.1	1349.4	1351.5	1351.5
12.5°	1336.6	1332.4	1338.8	1338.8	1340.9
15°	1319.6	1315.4	1323.9	1328.1	1328.1
17.5°	1300.5	1298.4	1309.0	1311.1	1313.3
20°	1279.3	1277.1	1289.9	1289.9	1294.1
22.5°	1253.8	1251.6	1268.6	1268.6	1272.9
25°	1226.1	1224.0	1243.1	1247.4	1249.5
27.5°	1196.4	1194.3	1213.4	1219.8	1224.0
30°	1162.4	1162.4	1183.6	1192.1	1198.5
32.5°	1124.1	1130.5	1149.6	1162.4	1170.9
35°	1088.0	1096.5	1117.8	1132.6	1143.3
37.5°	1047.6	1056.1	1079.5	1098.6	1111.4
40°	1005.1	1015.8	1043.4	1064.6	1083.8
42.5°	962.6	973.3	1003.0	1034.9	1060.4
45°	913.8	928.6	960.5	1005.1	1034.9
47.5°	864.9	879.8	920.1	975.4	1005.1
50°	813.9	830.9	879.8	943.5	975.4
52.5°	760.8	779.9	841.5	909.5	941.4
55°	705.5	728.9	799.0	871.3	905.3
57.5°	648.1	673.6	756.5	833.0	869.1
60°	588.6	620.5	711.9	792.6	830.9
62.5°	527.0	565.3	667.3	750.1	790.5
65°	463.3	507.9	620.5	707.6	748.0
67.5°	397.4	456.9	573.8	665.1	705.5
70°	331.5	401.6	524.9	618.4	658.8
72.5°	269.9	350.6	476.0	563.1	571.6
75°	210.4	299.6	425.0	433.5	418.6
77.5°	157.3	248.6	350.6	312.4	310.3
80°	112.6	199.8	225.3	231.6	233.8
82.5°	74.4	150.9	146.6	150.9	148.8
85°	44.6	74.4	76.5	74.4	70.1
87.5°	21.3	27.6	21.3	19.1	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)