

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: P263843

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263843  
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-LD5-65-RDP-UNV-L92765-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4012.0 lumens  
Efficiency: N/A  
Efficacy: 81.1 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

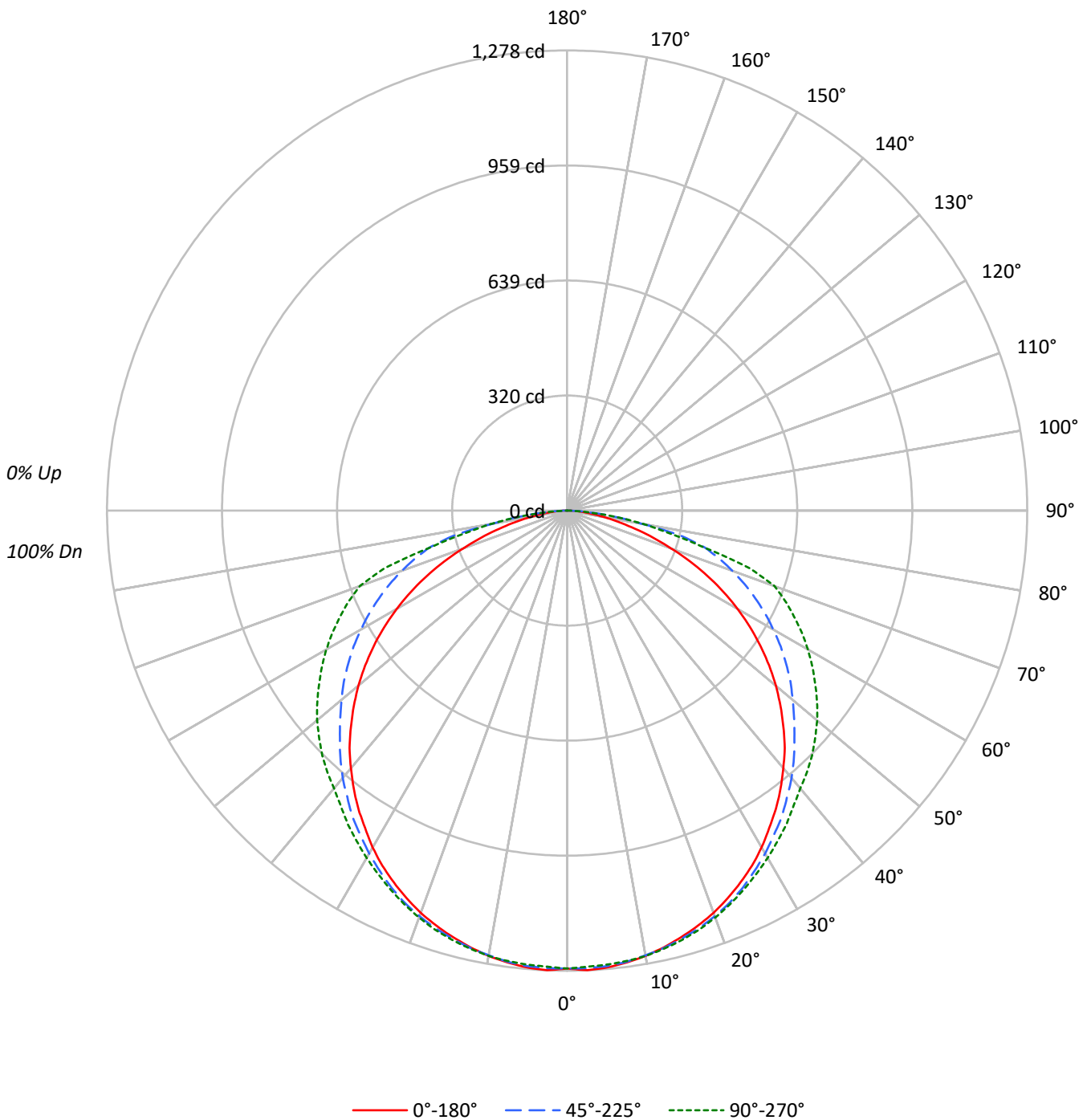
Input Watts (W): 49.476  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1711	1711	1711
5°	1720	1715	1710
10°	1716	1713	1716
15°	1708	1714	1719
20°	1702	1716	1722
25°	1692	1715	1724
30°	1678	1709	1730
35°	1661	1706	1745
40°	1641	1703	1769
45°	1616	1699	1830
50°	1583	1711	1897
55°	1538	1742	1974
60°	1472	1780	2078
65°	1371	1836	2213
70°	1212	1919	2408
75°	1016	2053	2023
80°	811	1622	1683
85°	641	1098	1007



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.6	3.0
10°-20°	347.2	8.7
20°-30°	530.3	13.2
30°-40°	648.3	16.2
40°-50°	693.9	17.3
50°-60°	665.6	16.6
60°-70°	562.0	14.0
70°-80°	359.2	9.0
80°-90°	84.9	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°	998.1	24.9
0°-40°	1646.4	41.0
0°-60°	3005.9	74.9
0°-90°	4012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4012.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1274	1266	1270	1268	1266	121
15°	1226	1222	1230	1234	1234	346
25°	1140	1138	1155	1159	1161	525
35°	1011	1019	1039	1053	1062	632
45°	849	863	893	934	962	655
55°	656	677	743	810	841	585
65°	430	472	577	658	695	425
75°	196	278	395	403	389	210
85°	42	69	71	69	65	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1271.8	1271.8	1271.8	1271.8	1271.8
2.5°	1277.8	1269.9	1271.8	1271.8	1267.9
5°	1273.8	1265.9	1269.9	1267.9	1265.9
7.5°	1265.9	1260.0	1263.9	1263.9	1262.0
10°	1256.0	1250.1	1254.1	1256.0	1256.0
12.5°	1242.2	1238.3	1244.2	1244.2	1246.2
15°	1226.4	1222.5	1230.4	1234.3	1234.3
17.5°	1208.6	1206.7	1216.5	1218.5	1220.5
20°	1188.9	1186.9	1198.8	1198.8	1202.7
22.5°	1165.2	1163.2	1179.0	1179.0	1183.0
25°	1139.5	1137.5	1155.3	1159.3	1161.2
27.5°	1111.9	1109.9	1127.7	1133.6	1137.5
30°	1080.3	1080.3	1100.0	1107.9	1113.8
32.5°	1044.7	1050.6	1068.4	1080.3	1088.2
35°	1011.2	1019.0	1038.8	1052.6	1062.5
37.5°	973.6	981.5	1003.3	1021.0	1032.9
40°	934.1	944.0	969.7	989.4	1007.2
42.5°	894.6	904.5	932.2	961.8	985.5
45°	849.2	863.0	892.7	934.1	961.8
47.5°	803.8	817.6	855.1	906.5	934.1
50°	756.4	772.2	817.6	876.9	906.5
52.5°	707.0	724.8	782.1	845.3	874.9
55°	655.7	677.4	742.6	809.7	841.3
57.5°	602.3	626.0	703.1	774.2	807.7
60°	547.0	576.7	661.6	736.6	772.2
62.5°	489.8	525.3	620.1	697.1	734.7
65°	430.5	472.0	576.7	657.6	695.2
67.5°	369.3	424.6	533.2	618.1	655.7
70°	308.1	373.3	487.8	574.7	612.2
72.5°	250.8	325.9	442.4	523.3	531.2
75°	195.5	278.5	395.0	402.9	389.1
77.5°	146.1	231.1	325.9	290.3	288.3
80°	104.7	185.6	209.3	215.3	217.2
82.5°	69.1	140.2	136.3	140.2	138.2
85°	41.5	69.1	71.1	69.1	65.2
87.5°	19.7	25.7	19.7	17.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)