

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: P263850

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263850  
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-LD5-70-RDP-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3993.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 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

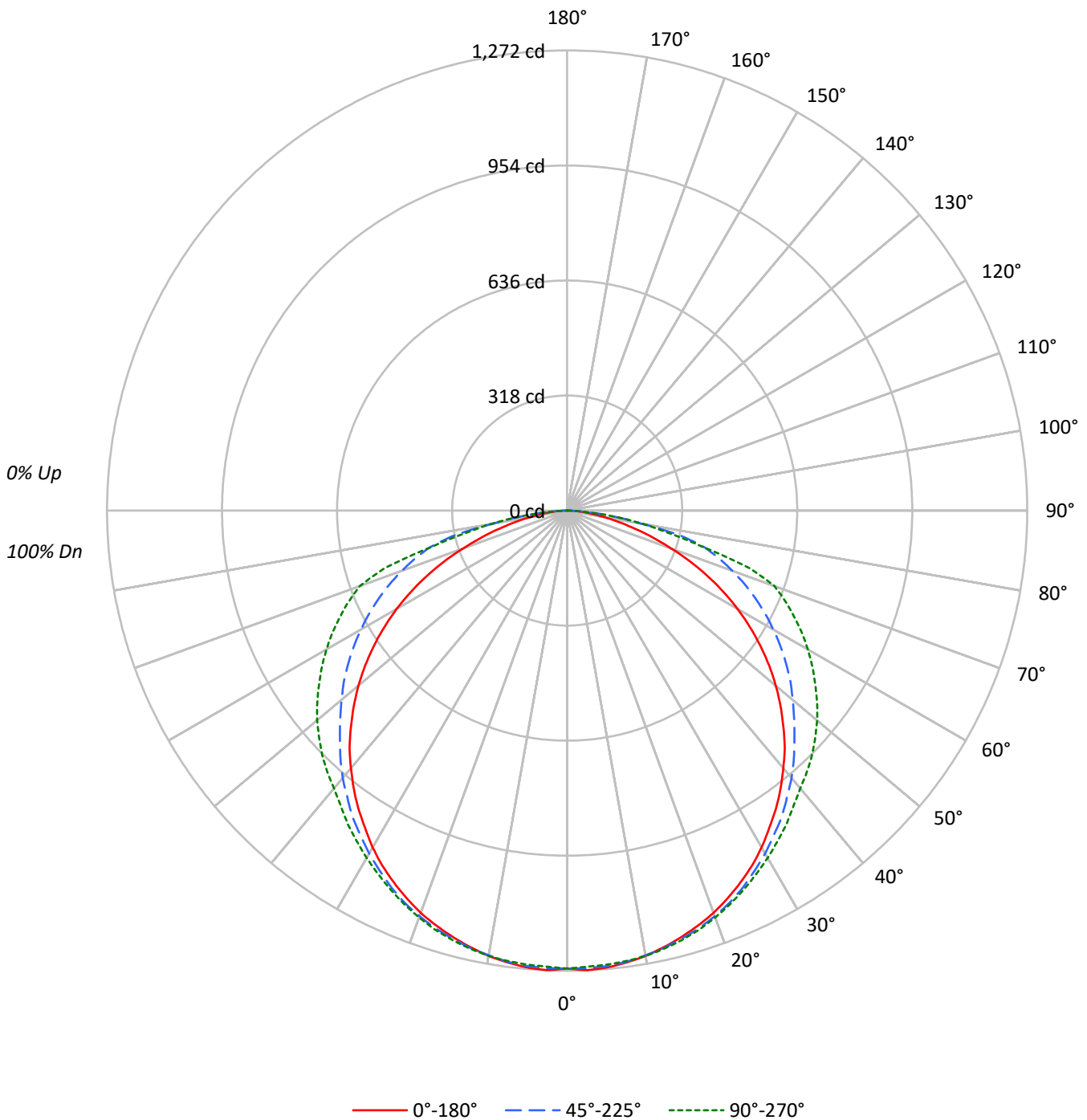
Input Watts (W): 53.196  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	61	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°	1703	1703	1703
5°	1712	1707	1702
10°	1708	1705	1708
15°	1700	1706	1711
20°	1694	1708	1714
25°	1684	1707	1716
30°	1670	1701	1722
35°	1653	1698	1737
40°	1633	1695	1761
45°	1608	1690	1821
50°	1576	1703	1888
55°	1531	1734	1964
60°	1465	1772	2068
65°	1364	1827	2203
70°	1206	1910	2397
75°	1012	2044	2013
80°	807	1614	1675
85°	638	1093	1002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.1	3.0
10°-20°	345.5	8.7
20°-30°	527.8	13.2
30°-40°	645.2	16.2
40°-50°	690.6	17.3
50°-60°	662.5	16.6
60°-70°	559.3	14.0
70°-80°	357.5	9.0
80°-90°	84.6	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°	993.3	24.9
0°-40°	1638.6	41.0
0°-60°	2991.6	74.9
0°-90°	3993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3993.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1268	1260	1264	1262	1260	120
15°	1221	1217	1224	1228	1228	345
25°	1134	1132	1150	1154	1156	523
35°	1006	1014	1034	1048	1058	629
45°	845	859	888	930	957	652
55°	653	674	739	806	837	582
65°	428	470	574	654	692	423
75°	195	277	393	401	387	209
85°	41	69	71	69	65	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1265.8	1265.8	1265.8	1265.8	1265.8
2.5°	1271.7	1263.8	1265.8	1265.8	1261.9
5°	1267.8	1259.9	1263.8	1261.9	1259.9
7.5°	1259.9	1254.0	1258.0	1258.0	1256.0
10°	1250.1	1244.2	1248.1	1250.1	1250.1
12.5°	1236.3	1232.4	1238.3	1238.3	1240.3
15°	1220.6	1216.7	1224.5	1228.5	1228.5
17.5°	1202.9	1201.0	1210.8	1212.7	1214.7
20°	1183.3	1181.3	1193.1	1193.1	1197.0
22.5°	1159.7	1157.7	1173.4	1173.4	1177.4
25°	1134.1	1132.2	1149.8	1153.8	1155.7
27.5°	1106.6	1104.6	1122.3	1128.2	1132.2
30°	1075.2	1075.2	1094.8	1102.7	1108.6
32.5°	1039.8	1045.7	1063.4	1075.2	1083.0
35°	1006.4	1014.2	1033.9	1047.6	1057.5
37.5°	969.0	976.9	998.5	1016.2	1028.0
40°	929.7	939.5	965.1	984.7	1002.4
42.5°	890.4	900.2	927.7	957.2	980.8
45°	845.2	858.9	888.4	929.7	957.2
47.5°	800.0	813.7	851.1	902.2	929.7
50°	752.8	768.5	813.7	872.7	902.2
52.5°	703.7	721.4	778.4	841.3	870.7
55°	652.6	674.2	739.0	805.9	837.3
57.5°	599.5	623.1	699.7	770.5	803.9
60°	544.5	573.9	658.5	733.2	768.5
62.5°	487.5	522.8	617.2	693.8	731.2
65°	428.5	469.8	573.9	654.5	691.9
67.5°	367.6	422.6	530.7	615.2	652.6
70°	306.6	371.5	485.5	572.0	609.3
72.5°	249.6	324.3	440.3	520.9	528.7
75°	194.6	277.1	393.1	401.0	387.2
77.5°	145.5	230.0	324.3	288.9	287.0
80°	104.2	184.8	208.3	214.2	216.2
82.5°	68.8	139.6	135.6	139.6	137.6
85°	41.3	68.8	70.8	68.8	64.9
87.5°	19.7	25.6	19.7	17.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)