

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: P263809

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263809  
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-LD5-45-RDP-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2881.0 lumens  
Efficiency: N/A  
Efficacy: 89.5 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

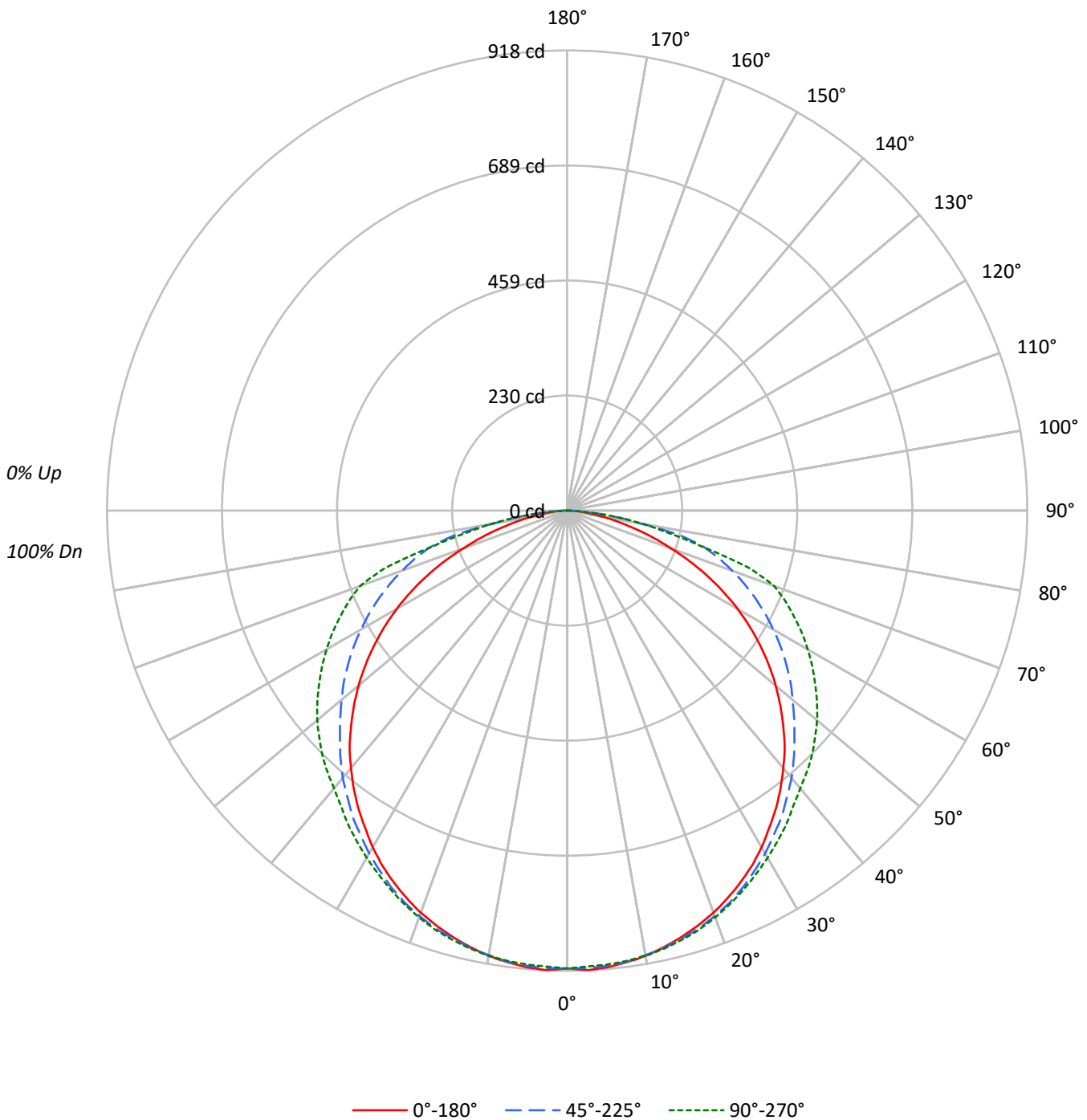
Input Watts (W): 32.178  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1229	1229	1229
5°	1235	1232	1228
10°	1232	1230	1232
15°	1227	1231	1235
20°	1222	1233	1237
25°	1215	1232	1238
30°	1205	1227	1243
35°	1193	1225	1253
40°	1178	1223	1270
45°	1160	1220	1314
50°	1137	1229	1362
55°	1104	1251	1417
60°	1057	1278	1492
65°	984	1318	1589
70°	870	1378	1729
75°	730	1474	1452
80°	583	1165	1209
85°	460	789	722



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	3.0
10°-20°	249.3	8.7
20°-30°	380.8	13.2
30°-40°	465.5	16.2
40°-50°	498.3	17.3
50°-60°	478.0	16.6
60°-70°	403.6	14.0
70°-80°	257.9	9.0
80°-90°	61.0	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°	716.7	24.9
0°-40°	1182.2	41.0
0°-60°	2158.5	74.9
0°-90°	2881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2881.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	915	909	912	910	909	87
15°	881	878	884	886	886	249
25°	818	817	830	832	834	377
35°	726	732	746	756	763	454
45°	610	620	641	671	691	470
55°	471	486	533	581	604	420
65°	309	339	414	472	499	305
75°	140	200	284	289	279	151
85°	30	50	51	50	47	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	913.3	913.3	913.3	913.3	913.3
2.5°	917.6	911.9	913.3	913.3	910.5
5°	914.7	909.0	911.9	910.5	909.0
7.5°	909.0	904.8	907.6	907.6	906.2
10°	902.0	897.7	900.5	902.0	902.0
12.5°	892.0	889.2	893.4	893.4	894.9
15°	880.7	877.8	883.5	886.4	886.4
17.5°	867.9	866.5	873.6	875.0	876.4
20°	853.7	852.3	860.8	860.8	863.7
22.5°	836.7	835.3	846.6	846.6	849.5
25°	818.3	816.9	829.6	832.5	833.9
27.5°	798.4	797.0	809.8	814.0	816.9
30°	775.7	775.7	789.9	795.6	799.8
32.5°	750.2	754.5	767.2	775.7	781.4
35°	726.1	731.8	746.0	755.9	763.0
37.5°	699.2	704.8	720.4	733.2	741.7
40°	670.8	677.9	696.3	710.5	723.3
42.5°	642.4	649.5	669.4	690.6	707.7
45°	609.8	619.7	641.0	670.8	690.6
47.5°	577.2	587.1	614.1	650.9	670.8
50°	543.2	554.5	587.1	629.7	650.9
52.5°	507.7	520.5	561.6	607.0	628.2
55°	470.8	486.4	533.2	581.4	604.1
57.5°	432.5	449.6	504.9	555.9	580.0
60°	392.8	414.1	475.1	529.0	554.5
62.5°	351.7	377.2	445.3	500.6	527.6
65°	309.2	338.9	414.1	472.3	499.2
67.5°	265.2	304.9	382.9	443.9	470.8
70°	221.2	268.0	350.3	412.7	439.6
72.5°	180.1	234.0	317.7	375.8	381.5
75°	140.4	200.0	283.6	289.3	279.4
77.5°	104.9	165.9	234.0	208.5	207.1
80°	75.2	133.3	150.3	154.6	156.0
82.5°	49.6	100.7	97.9	100.7	99.3
85°	29.8	49.6	51.1	49.6	46.8
87.5°	14.2	18.4	14.2	12.8	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)