

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: P263756

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263756  
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-LD5-40SE-RDP-UNV-L82765-W2A1-U-5500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2925.0 lumens  
Efficiency: N/A  
Efficacy: 93.6 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

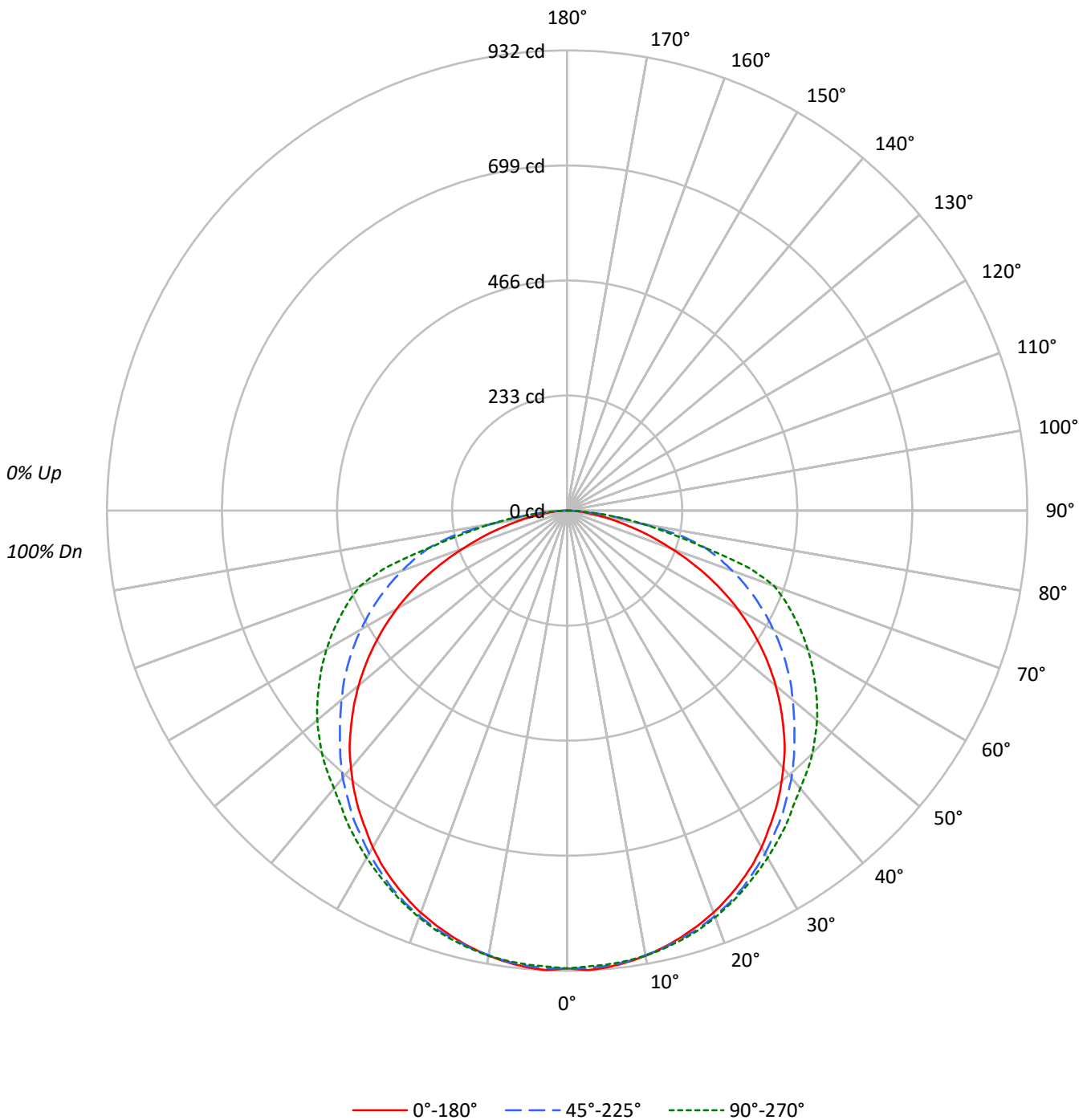
Input Watts (W): 31.248  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1248	1248	1248
5°	1254	1250	1246
10°	1251	1249	1251
15°	1245	1249	1254
20°	1241	1251	1256
25°	1233	1250	1257
30°	1224	1246	1262
35°	1211	1244	1272
40°	1196	1242	1290
45°	1178	1238	1334
50°	1154	1248	1383
55°	1121	1270	1439
60°	1073	1298	1515
65°	999	1338	1613
70°	884	1399	1756
75°	741	1497	1474
80°	591	1182	1227
85°	466	800	733



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.9	3.0
10°-20°	253.1	8.7
20°-30°	386.6	13.2
30°-40°	472.6	16.2
40°-50°	505.9	17.3
50°-60°	485.3	16.6
60°-70°	409.7	14.0
70°-80°	261.9	9.0
80°-90°	61.9	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°	727.7	24.9
0°-40°	1200.3	41.0
0°-60°	2191.5	74.9
0°-90°	2925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2925.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	929	923	926	924	923	88
15°	894	891	897	900	900	252
25°	831	829	842	845	847	383
35°	737	743	757	767	775	461
45°	619	629	651	681	701	478
55°	478	494	541	590	613	427
65°	314	344	420	480	507	310
75°	142	203	288	294	284	153
85°	30	50	52	50	48	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	927.2	927.2	927.2	927.2	927.2
2.5°	931.6	925.8	927.2	927.2	924.4
5°	928.7	922.9	925.8	924.4	922.9
7.5°	922.9	918.6	921.5	921.5	920.1
10°	915.7	911.4	914.3	915.7	915.7
12.5°	905.7	902.8	907.1	907.1	908.5
15°	894.1	891.3	897.0	899.9	899.9
17.5°	881.2	879.7	886.9	888.4	889.8
20°	866.8	865.3	874.0	874.0	876.9
22.5°	849.5	848.1	859.6	859.6	862.5
25°	830.8	829.3	842.3	845.2	846.6
27.5°	810.6	809.2	822.1	826.5	829.3
30°	787.6	787.6	802.0	807.7	812.1
32.5°	761.7	766.0	778.9	787.6	793.3
35°	737.2	743.0	757.3	767.4	774.6
37.5°	709.8	715.6	731.4	744.4	753.0
40°	681.0	688.2	707.0	721.4	734.3
42.5°	652.2	659.4	679.6	701.2	718.5
45°	619.1	629.2	650.8	681.0	701.2
47.5°	586.0	596.1	623.4	660.9	681.0
50°	551.5	563.0	596.1	639.3	660.9
52.5°	515.5	528.4	570.2	616.2	637.8
55°	478.0	493.9	541.4	590.3	613.4
57.5°	439.1	456.4	512.6	564.4	588.9
60°	398.8	420.4	482.3	537.1	563.0
62.5°	357.1	383.0	452.1	508.3	535.6
65°	313.9	344.1	420.4	479.5	506.8
67.5°	269.2	309.6	388.8	450.7	478.0
70°	224.6	272.1	355.6	419.0	446.3
72.5°	182.9	237.6	322.5	381.6	387.3
75°	142.5	203.0	288.0	293.7	283.6
77.5°	106.5	168.5	237.6	211.7	210.2
80°	76.3	135.3	152.6	156.9	158.4
82.5°	50.4	102.2	99.3	102.2	100.8
85°	30.2	50.4	51.8	50.4	47.5
87.5°	14.4	18.7	14.4	13.0	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)