

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: P263661

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263661  
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-LD5-40-RDP-UNV-L82765-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2672.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 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

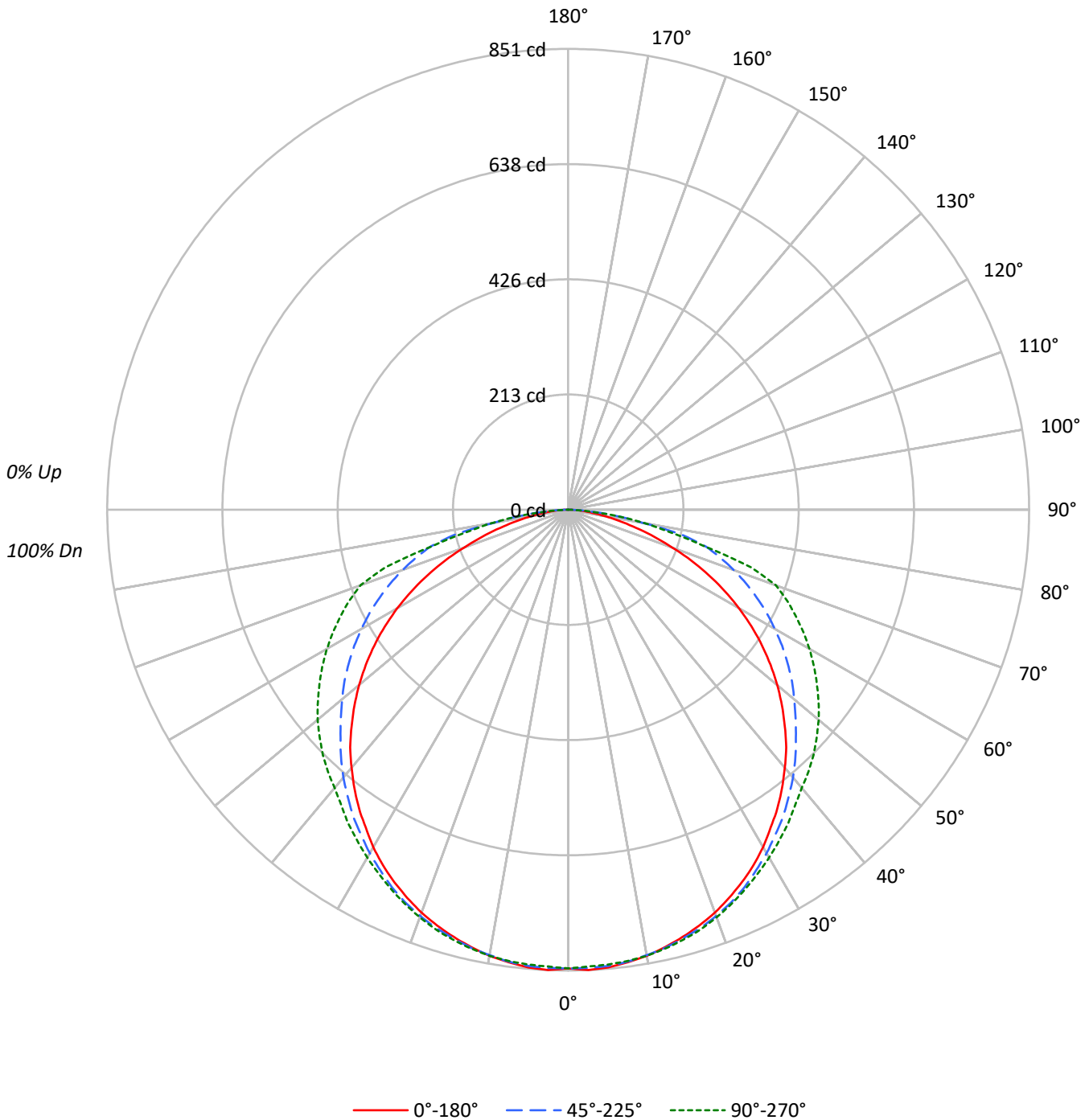
Input Watts (W): 28.086  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1140	1140	1140
5°	1146	1142	1139
10°	1143	1141	1143
15°	1138	1141	1145
20°	1134	1143	1147
25°	1127	1142	1148
30°	1118	1138	1152
35°	1106	1136	1162
40°	1093	1134	1178
45°	1076	1131	1219
50°	1055	1140	1264
55°	1024	1160	1314
60°	980	1186	1384
65°	913	1223	1474
70°	807	1278	1604
75°	677	1368	1347
80°	540	1080	1121
85°	426	732	670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	3.0
10°-20°	231.2	8.7
20°-30°	353.2	13.2
30°-40°	431.8	16.2
40°-50°	462.1	17.3
50°-60°	443.3	16.6
60°-70°	374.3	14.0
70°-80°	239.2	9.0
80°-90°	56.6	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°	664.7	24.9
0°-40°	1096.5	41.0
0°-60°	2001.9	74.9
0°-90°	2672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2672.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	847	847	847	847	847	
5°	848	843	846	844	843	81
15°	817	814	819	822	822	231
25°	759	758	769	772	773	350
35°	673	679	692	701	708	421
45°	566	575	594	622	640	436
55°	437	451	494	539	560	390
65°	287	314	384	438	463	283
75°	130	186	263	268	259	140
85°	28	46	47	46	43	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	847.0	847.0	847.0	847.0	847.0
2.5°	851.0	845.7	847.0	847.0	844.4
5°	848.4	843.1	845.7	844.4	843.1
7.5°	843.1	839.2	841.8	841.8	840.5
10°	836.5	832.6	835.2	836.5	836.5
12.5°	827.3	824.7	828.6	828.6	829.9
15°	816.8	814.2	819.4	822.1	822.1
17.5°	805.0	803.6	810.2	811.5	812.8
20°	791.8	790.5	798.4	798.4	801.0
22.5°	776.0	774.7	785.2	785.2	787.9
25°	758.9	757.6	769.4	772.1	773.4
27.5°	740.5	739.2	751.0	755.0	757.6
30°	719.5	719.5	732.6	737.9	741.8
32.5°	695.8	699.7	711.6	719.5	724.7
35°	673.4	678.7	691.8	701.0	707.6
37.5°	648.4	653.7	668.2	680.0	687.9
40°	622.1	628.7	645.8	659.0	670.8
42.5°	595.8	602.4	620.8	640.5	656.3
45°	565.6	574.8	594.5	622.1	640.5
47.5°	535.3	544.5	569.5	603.7	622.1
50°	503.8	514.3	544.5	584.0	603.7
52.5°	470.9	482.7	520.9	562.9	582.7
55°	436.7	451.1	494.5	539.3	560.3
57.5°	401.2	416.9	468.2	515.6	538.0
60°	364.3	384.1	440.6	490.6	514.3
62.5°	326.2	349.9	413.0	464.3	489.3
65°	286.7	314.4	384.1	438.0	463.0
67.5°	246.0	282.8	355.1	411.7	436.7
70°	205.2	248.6	324.9	382.7	407.7
72.5°	167.0	217.0	294.6	348.6	353.8
75°	130.2	185.5	263.1	268.3	259.1
77.5°	97.3	153.9	217.0	193.3	192.0
80°	69.7	123.6	139.4	143.4	144.7
82.5°	46.0	93.4	90.8	93.4	92.1
85°	27.6	46.0	47.4	46.0	43.4
87.5°	13.2	17.1	13.2	11.8	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)