

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: P263337

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-40SE-SQP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2794.0 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

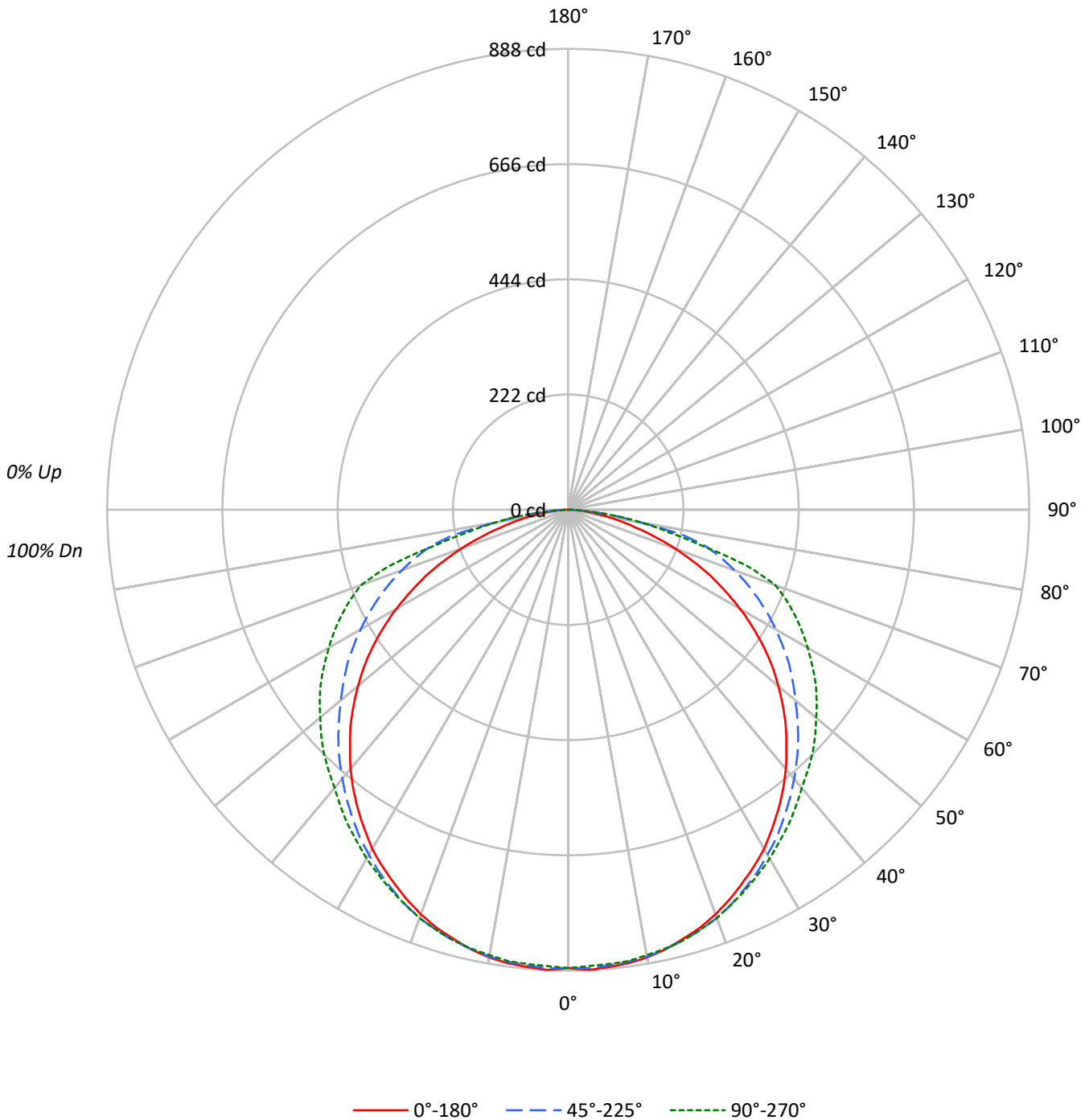
Input Watts (W): 31.248  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	1188	1188	1188
5°	1195	1191	1187
10°	1197	1195	1191
15°	1192	1196	1196
20°	1188	1199	1199
25°	1178	1196	1200
30°	1173	1193	1206
35°	1159	1190	1216
40°	1146	1189	1229
45°	1129	1192	1266
50°	1106	1196	1305
55°	1076	1219	1364
60°	1029	1243	1433
65°	965	1282	1535
70°	863	1340	1669
75°	713	1433	1380
80°	581	1107	1118
85°	468	735	690



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	3.0
10°-20°	242.1	8.7
20°-30°	369.9	13.2
30°-40°	452.5	16.2
40°-50°	484.1	17.3
50°-60°	463.6	16.6
60°-70°	392.2	14.0
70°-80°	248.6	8.9
80°-90°	57.2	2.0
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°	695.9	24.9
0°-40°	1148.4	41.1
0°-60°	2096.1	75.0
0°-90°	2794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2794.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	883	883	883	883	883	
5°	885	880	882	880	879	84
15°	856	854	859	859	859	242
25°	794	794	805	808	808	366
35°	706	710	724	735	740	442
45°	593	603	626	652	665	457
55°	459	473	520	563	582	409
65°	303	332	403	458	482	299
75°	137	193	276	274	266	149
85°	30	46	48	43	45	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	883.2	883.2	883.2	883.2	883.2
2.5°	887.6	883.2	884.7	883.2	880.3
5°	884.7	880.3	881.8	880.3	878.9
7.5°	881.8	877.5	878.9	877.5	877.5
10°	876.0	871.7	874.6	873.1	871.7
12.5°	867.4	864.5	867.4	865.9	865.9
15°	855.8	854.4	858.7	858.7	858.7
17.5°	844.3	842.8	848.6	848.6	848.6
20°	829.8	828.4	837.1	837.1	837.1
22.5°	812.5	811.1	822.6	822.6	822.6
25°	793.8	793.8	805.3	808.2	808.2
27.5°	775.0	775.0	788.0	792.3	792.3
30°	754.8	754.8	767.8	773.6	776.4
32.5°	730.3	733.1	747.6	754.8	757.7
35°	705.7	710.1	724.5	734.6	740.4
37.5°	679.7	684.1	701.4	712.9	720.2
40°	652.3	658.1	676.9	691.3	699.9
42.5°	622.0	630.7	652.3	671.1	682.6
45°	593.2	603.3	626.3	652.3	665.3
47.5°	561.4	572.9	598.9	632.1	645.1
50°	528.2	539.8	571.5	609.0	623.5
52.5°	495.0	508.0	545.5	585.9	603.3
55°	458.9	473.4	519.6	562.8	581.6
57.5°	421.4	438.7	490.7	536.9	557.1
60°	382.4	404.1	461.8	510.9	532.5
62.5°	342.0	368.0	433.0	484.9	508.0
65°	303.1	331.9	402.7	457.5	482.0
67.5°	261.2	297.3	372.3	431.5	454.6
70°	219.4	261.2	340.6	401.2	424.3
72.5°	177.5	228.0	308.8	363.7	363.7
75°	137.1	193.4	275.7	274.2	265.5
77.5°	103.9	161.6	226.6	193.4	194.8
80°	75.0	129.9	142.9	142.9	144.3
82.5°	50.5	99.6	92.4	90.9	93.8
85°	30.3	46.2	47.6	43.3	44.7
87.5°	14.4	15.9	13.0	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)