

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: P263248

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263248  
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-LD5-40-SQP-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2818.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

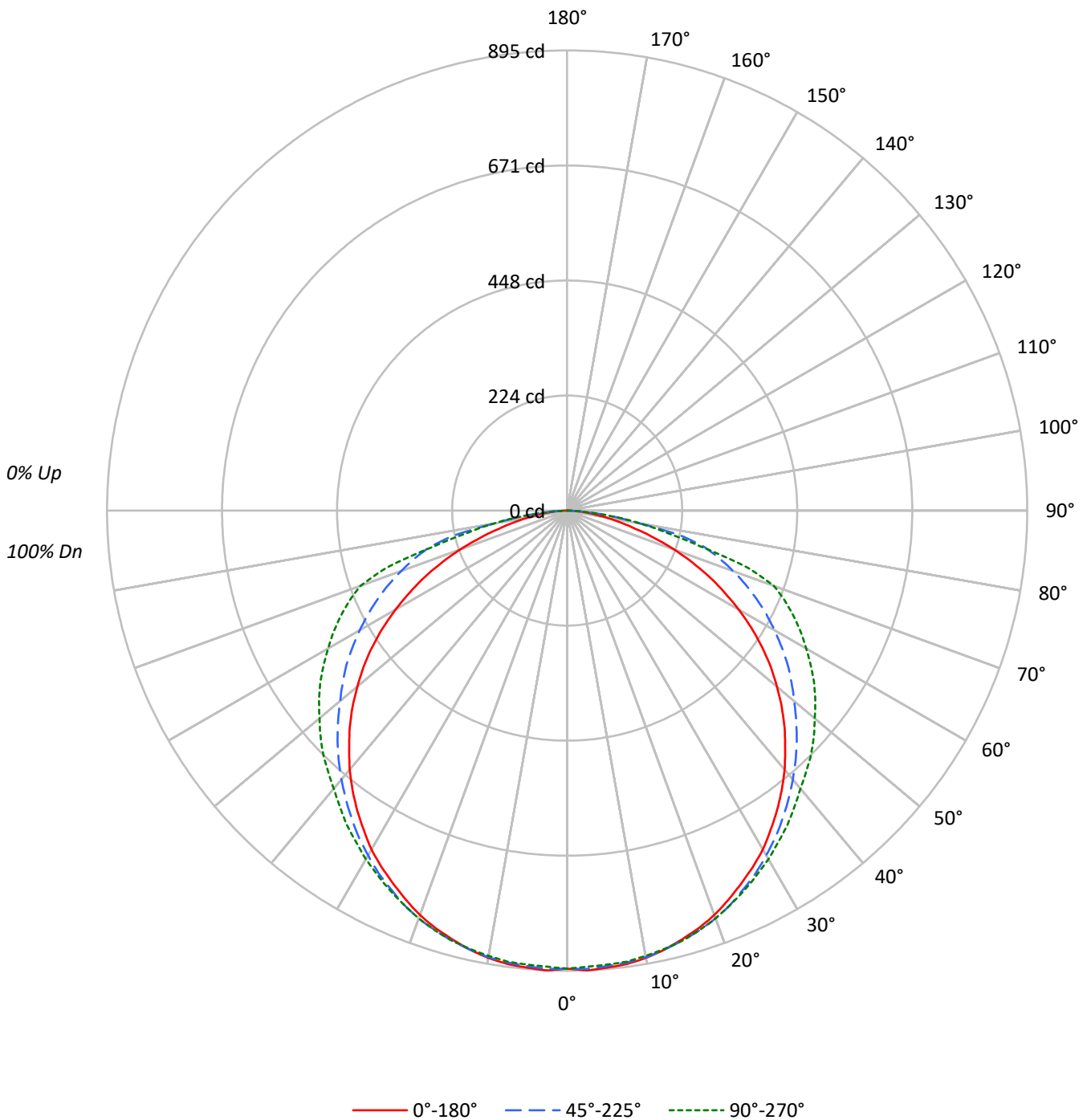
Input Watts (W): 29.574  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1199	1199	1199
5°	1205	1201	1197
10°	1207	1205	1201
15°	1202	1206	1206
20°	1198	1209	1209
25°	1189	1206	1210
30°	1183	1203	1217
35°	1169	1200	1226
40°	1156	1199	1240
45°	1138	1202	1277
50°	1115	1207	1316
55°	1086	1229	1376
60°	1038	1253	1445
65°	973	1293	1548
70°	871	1351	1683
75°	719	1445	1392
80°	587	1117	1128
85°	472	741	696



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	3.0
10°-20°	244.1	8.7
20°-30°	373.1	13.2
30°-40°	456.4	16.2
40°-50°	488.3	17.3
50°-60°	467.6	16.6
60°-70°	395.5	14.0
70°-80°	250.7	8.9
80°-90°	57.7	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°	701.9	24.9
0°-40°	1158.2	41.1
0°-60°	2114.1	75.0
0°-90°	2818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2818.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	892	888	889	888	886	85
15°	863	862	866	866	866	244
25°	801	801	812	815	815	369
35°	712	716	731	741	747	445
45°	598	608	632	658	671	461
55°	463	477	524	568	587	413
65°	306	335	406	461	486	301
75°	138	195	278	277	268	150
85°	31	47	48	44	45	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	890.8	890.8	890.8	890.8	890.8
2.5°	895.2	890.8	892.3	890.8	887.9
5°	892.3	887.9	889.4	887.9	886.5
7.5°	889.4	885.0	886.5	885.0	885.0
10°	883.5	879.2	882.1	880.6	879.2
12.5°	874.8	871.9	874.8	873.4	873.4
15°	863.2	861.7	866.1	866.1	866.1
17.5°	851.5	850.1	855.9	855.9	855.9
20°	837.0	835.5	844.2	844.2	844.2
22.5°	819.5	818.0	829.7	829.7	829.7
25°	800.6	800.6	812.2	815.1	815.1
27.5°	781.7	781.7	794.8	799.1	799.1
30°	761.3	761.3	774.4	780.2	783.1
32.5°	736.5	739.4	754.0	761.3	764.2
35°	711.8	716.2	730.7	740.9	746.7
37.5°	685.6	690.0	707.4	719.1	726.3
40°	657.9	663.8	682.7	697.2	706.0
42.5°	627.4	636.1	657.9	676.9	688.5
45°	598.2	608.4	631.7	657.9	671.0
47.5°	566.2	577.9	604.1	637.5	650.6
50°	532.7	544.4	576.4	614.3	628.8
52.5°	499.3	512.4	550.2	591.0	608.4
55°	462.9	477.4	524.0	567.7	586.6
57.5°	425.0	442.5	494.9	541.5	561.9
60°	385.7	407.6	465.8	515.3	537.1
62.5°	345.0	371.2	436.7	489.1	512.4
65°	305.7	334.8	406.1	461.4	486.2
67.5°	263.5	299.9	375.5	435.2	458.5
70°	221.3	263.5	343.5	404.7	427.9
72.5°	179.0	230.0	311.5	366.8	366.8
75°	138.3	195.0	278.0	276.6	267.8
77.5°	104.8	163.0	228.5	195.0	196.5
80°	75.7	131.0	144.1	144.1	145.6
82.5°	50.9	100.4	93.2	91.7	94.6
85°	30.6	46.6	48.0	43.7	45.1
87.5°	14.6	16.0	13.1	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)