

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: P263241

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263241  
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-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2545.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 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

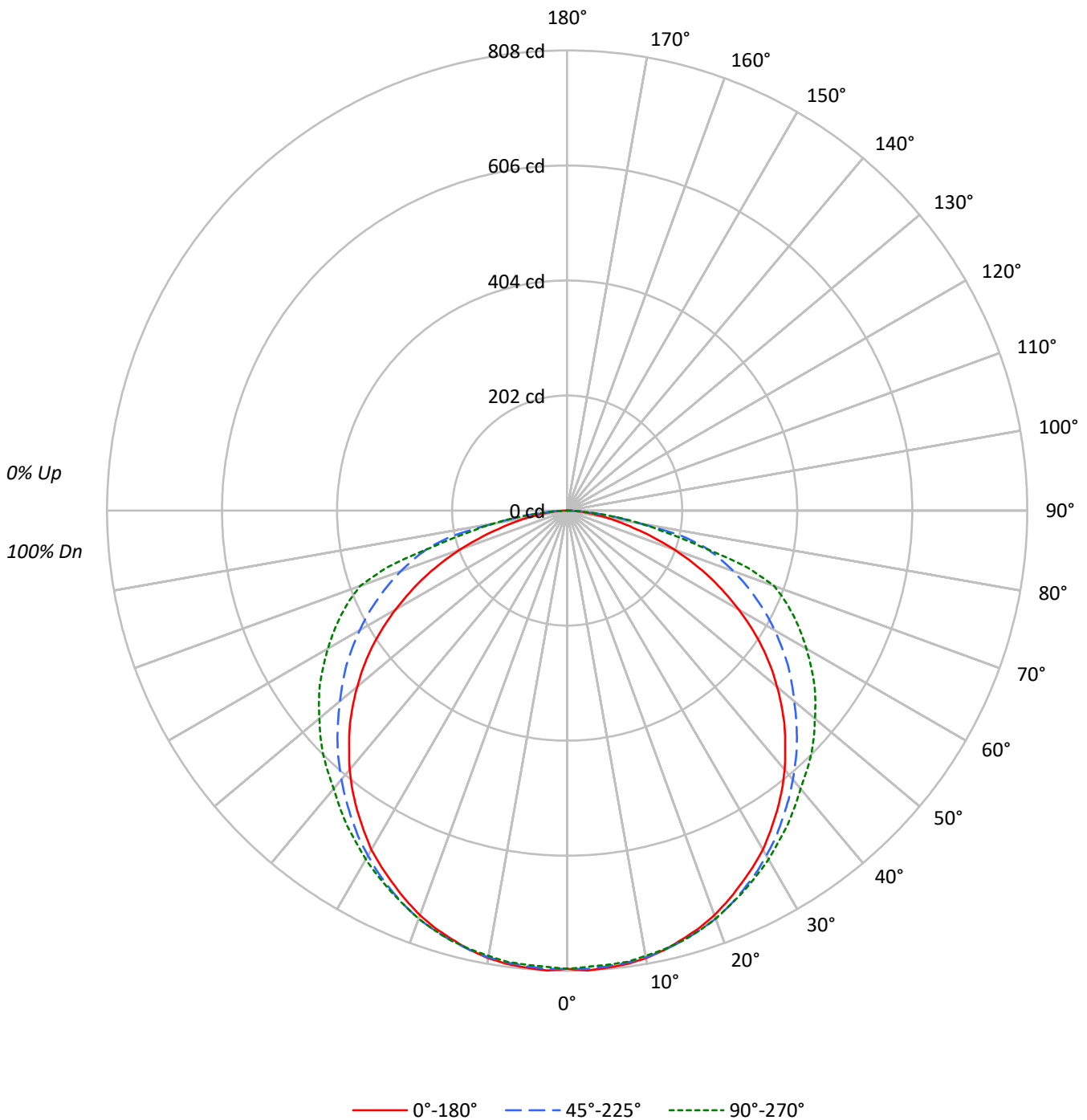
Input Watts (W): 28.086  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1082	1082	1082
5°	1088	1085	1081
10°	1090	1088	1085
15°	1086	1090	1090
20°	1082	1092	1092
25°	1073	1089	1093
30°	1068	1087	1099
35°	1056	1084	1108
40°	1044	1083	1120
45°	1028	1086	1153
50°	1007	1090	1189
55°	981	1110	1243
60°	938	1132	1305
65°	879	1168	1398
70°	786	1220	1520
75°	649	1305	1258
80°	530	1008	1019
85°	426	670	630



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.4	3.0
10°-20°	220.5	8.7
20°-30°	337.0	13.2
30°-40°	412.1	16.2
40°-50°	441.0	17.3
50°-60°	422.3	16.6
60°-70°	357.2	14.0
70°-80°	226.4	8.9
80°-90°	52.1	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°	633.9	24.9
0°-40°	1046.0	41.1
0°-60°	1909.3	75.0
0°-90°	2545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	806	802	803	802	801	77
15°	780	778	782	782	782	220
25°	723	723	734	736	736	334
35°	643	647	660	669	674	402
45°	540	550	570	594	606	416
55°	418	431	473	513	530	373
65°	276	302	367	417	439	272
75°	125	176	251	250	242	136
85°	28	42	43	39	41	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	804.5	804.5	804.5	804.5	804.5
2.5°	808.5	804.5	805.8	804.5	801.9
5°	805.8	801.9	803.2	801.9	800.6
7.5°	803.2	799.3	800.6	799.3	799.3
10°	797.9	794.0	796.6	795.3	794.0
12.5°	790.1	787.4	790.1	788.7	788.7
15°	779.5	778.2	782.2	782.2	782.2
17.5°	769.0	767.7	773.0	773.0	773.0
20°	755.9	754.6	762.5	762.5	762.5
22.5°	740.1	738.8	749.3	749.3	749.3
25°	723.0	723.0	733.5	736.2	736.2
27.5°	705.9	705.9	717.8	721.7	721.7
30°	687.5	687.5	699.4	704.6	707.2
32.5°	665.2	667.8	681.0	687.5	690.2
35°	642.8	646.8	659.9	669.1	674.4
37.5°	619.2	623.1	638.9	649.4	656.0
40°	594.2	599.4	616.5	629.7	637.6
42.5°	566.6	574.5	594.2	611.3	621.8
45°	540.3	549.5	570.5	594.2	606.0
47.5°	511.4	521.9	545.6	575.8	587.6
50°	481.1	491.7	520.6	554.8	567.9
52.5°	450.9	462.7	496.9	533.7	549.5
55°	418.0	431.2	473.2	512.7	529.8
57.5°	383.9	399.6	447.0	489.0	507.4
60°	348.4	368.1	420.7	465.4	485.1
62.5°	311.6	335.2	394.4	441.7	462.7
65°	276.1	302.4	366.8	416.7	439.1
67.5°	237.9	270.8	339.2	393.1	414.1
70°	199.8	237.9	310.2	365.5	386.5
72.5°	161.7	207.7	281.3	331.3	331.3
75°	124.9	176.2	251.1	249.8	241.9
77.5°	94.6	147.2	206.4	176.2	177.5
80°	68.4	118.3	130.1	130.1	131.5
82.5°	46.0	90.7	84.1	82.8	85.4
85°	27.6	42.1	43.4	39.4	40.8
87.5°	13.1	14.5	11.8	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)