

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: P263579

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263579  
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-L93050-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2598.6 lumens  
Efficiency: N/A  
Efficacy: 89.6 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

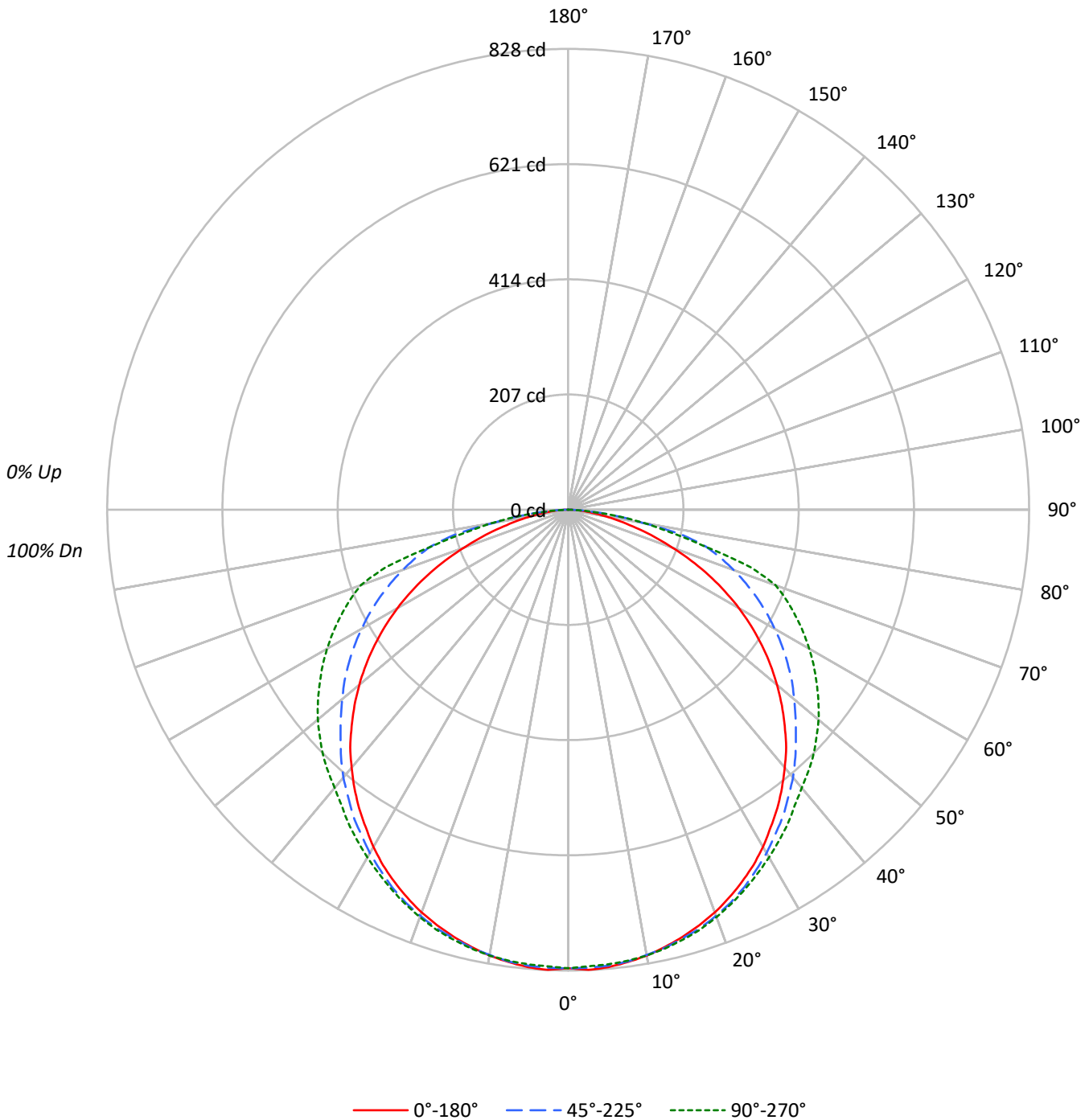
Input Watts (W): 29.007072  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P263579

CATALOG NUMBER: 24CZ-LD5-40-RDP-UNV-L93050-W2A1-U-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P263579

CATALOG NUMBER: 24CZ-LD5-40-RDP-UNV-L93050-W2A1-U-4000K

**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°	1108	1108	1108
5°	1114	1111	1107
10°	1111	1110	1111
15°	1107	1110	1114
20°	1103	1112	1115
25°	1096	1111	1117
30°	1087	1107	1121
35°	1076	1105	1130
40°	1063	1103	1146
45°	1047	1100	1185
50°	1025	1109	1229
55°	996	1128	1278
60°	953	1153	1346
65°	888	1189	1434
70°	785	1243	1560
75°	658	1330	1310
80°	525	1051	1090
85°	415	710	651



TEST NUMBER: P263579

CATALOG NUMBER: 24CZ-LD5-40-RDP-UNV-L93050-W2A1-U-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.1	3.0
10°-20°	224.9	8.7
20°-30°	343.5	13.2
30°-40°	419.9	16.2
40°-50°	449.5	17.3
50°-60°	431.1	16.6
60°-70°	364.0	14.0
70°-80°	232.6	9.0
80°-90°	55.0	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°	646.5	24.9
0°-40°	1066.4	41.0
0°-60°	1946.9	74.9
0°-90°	2598.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2598.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	825	820	822	821	820	78
15°	794	792	797	800	800	224
25°	738	737	748	751	752	340
35°	655	660	673	682	688	409
45°	550	559	578	605	623	424
55°	425	439	481	524	545	379
65°	279	306	374	426	450	275
75°	127	180	256	261	252	136
85°	27	45	46	45	42	32
90°	0	0	0	0	0	



TEST NUMBER: P263579

CATALOG NUMBER: 24CZ-LD5-40-RDP-UNV-L93050-W2A1-U-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	823.8	823.8	823.8	823.8	823.8
2.5°	827.6	822.5	823.8	823.8	821.2
5°	825.1	819.9	822.5	821.2	819.9
7.5°	819.9	816.1	818.7	818.7	817.4
10°	813.5	809.7	812.3	813.5	813.5
12.5°	804.6	802.0	805.9	805.9	807.2
15°	794.4	791.8	796.9	799.5	799.5
17.5°	782.8	781.6	788.0	789.2	790.5
20°	770.1	768.8	776.5	776.5	779.0
22.5°	754.7	753.4	763.7	763.7	766.2
25°	738.1	736.8	748.3	750.9	752.1
27.5°	720.2	718.9	730.4	734.2	736.8
30°	699.7	699.7	712.5	717.6	721.4
32.5°	676.7	680.5	692.0	699.7	704.8
35°	654.9	660.0	672.8	681.8	688.2
37.5°	630.6	635.7	649.8	661.3	669.0
40°	605.0	611.4	628.1	640.9	652.4
42.5°	579.5	585.9	603.8	623.0	638.3
45°	550.0	559.0	578.2	605.0	623.0
47.5°	520.6	529.6	553.9	587.1	605.0
50°	489.9	500.2	529.6	567.9	587.1
52.5°	457.9	469.5	506.5	547.5	566.7
55°	424.7	438.8	481.0	524.5	544.9
57.5°	390.1	405.5	455.4	501.4	523.2
60°	354.3	373.5	428.5	477.1	500.2
62.5°	317.2	340.3	401.7	451.5	475.8
65°	278.9	305.7	373.5	426.0	450.3
67.5°	239.2	275.0	345.4	400.4	424.7
70°	199.5	241.8	316.0	372.2	396.5
72.5°	162.5	211.1	286.5	339.0	344.1
75°	126.6	180.4	255.8	260.9	252.0
77.5°	94.7	149.7	211.1	188.0	186.8
80°	67.8	120.2	135.6	139.4	140.7
82.5°	44.8	90.8	88.3	90.8	89.5
85°	26.9	44.8	46.0	44.8	42.2
87.5°	12.8	16.6	12.8	11.5	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)