

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: P263750

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263750  
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-LD5-40SE-RDP-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2581.0 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

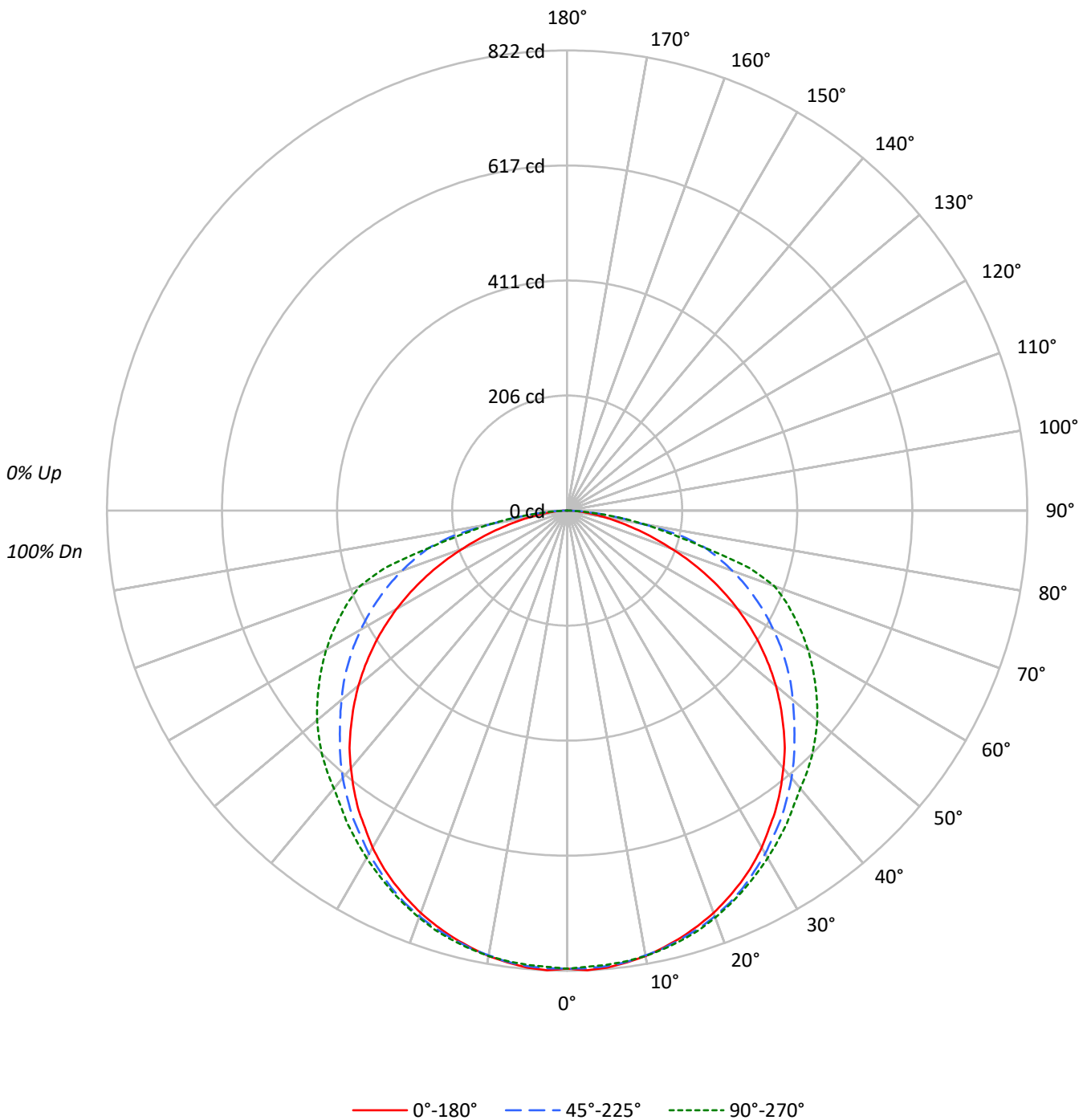
Input Watts (W): 30.411  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1101	1101	1101
5°	1107	1103	1100
10°	1104	1102	1104
15°	1099	1103	1106
20°	1095	1104	1108
25°	1088	1103	1109
30°	1080	1100	1113
35°	1068	1098	1123
40°	1055	1096	1138
45°	1040	1093	1177
50°	1019	1101	1221
55°	989	1121	1270
60°	947	1145	1337
65°	882	1181	1424
70°	780	1234	1550
75°	654	1321	1301
80°	521	1044	1083
85°	412	706	647



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.6	3.0
10°-20°	223.3	8.7
20°-30°	341.1	13.2
30°-40°	417.1	16.2
40°-50°	446.4	17.3
50°-60°	428.2	16.6
60°-70°	361.6	14.0
70°-80°	231.1	9.0
80°-90°	54.6	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°	642.1	24.9
0°-40°	1059.1	41.0
0°-60°	1933.7	74.9
0°-90°	2581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	820	814	817	816	814	78
15°	789	786	792	794	794	223
25°	733	732	743	746	747	338
35°	650	656	668	677	684	407
45°	546	555	574	601	619	421
55°	422	436	478	521	541	376
65°	277	304	371	423	447	273
75°	126	179	254	259	250	135
85°	27	44	46	44	42	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	818.2	818.2	818.2	818.2	818.2
2.5°	822.0	816.9	818.2	818.2	815.7
5°	819.5	814.4	816.9	815.7	814.4
7.5°	814.4	810.6	813.1	813.1	811.8
10°	808.0	804.2	806.8	808.0	808.0
12.5°	799.1	796.6	800.4	800.4	801.7
15°	789.0	786.4	791.5	794.1	794.1
17.5°	777.5	776.3	782.6	783.9	785.2
20°	764.8	763.6	771.2	771.2	773.7
22.5°	749.6	748.3	758.5	758.5	761.0
25°	733.1	731.8	743.2	745.8	747.1
27.5°	715.3	714.0	725.5	729.3	731.8
30°	695.0	695.0	707.7	712.7	716.6
32.5°	672.1	675.9	687.3	695.0	700.0
35°	650.5	655.6	668.3	677.2	683.5
37.5°	626.4	631.4	645.4	656.8	664.5
40°	600.9	607.3	623.8	636.5	648.0
42.5°	575.5	581.9	599.7	618.7	634.0
45°	546.3	555.2	574.3	600.9	618.7
47.5°	517.1	526.0	550.1	583.2	600.9
50°	486.6	496.8	526.0	564.1	583.2
52.5°	454.8	466.3	503.1	543.8	562.8
55°	421.8	435.8	477.7	520.9	541.2
57.5°	387.5	402.7	452.3	498.0	519.6
60°	351.9	371.0	425.6	473.9	496.8
62.5°	315.1	338.0	398.9	448.5	472.6
65°	277.0	303.6	371.0	423.1	447.2
67.5°	237.6	273.2	343.0	397.7	421.8
70°	198.2	240.1	313.8	369.7	393.9
72.5°	161.4	209.6	284.6	336.7	341.8
75°	125.8	179.1	254.1	259.2	250.3
77.5°	94.0	148.6	209.6	186.8	185.5
80°	67.3	119.4	134.7	138.5	139.8
82.5°	44.5	90.2	87.7	90.2	88.9
85°	26.7	44.5	45.7	44.5	41.9
87.5°	12.7	16.5	12.7	11.4	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)