

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: P263888

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263888  
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-L92765-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2485.0 lumens  
Efficiency: N/A  
Efficacy: 80.7 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

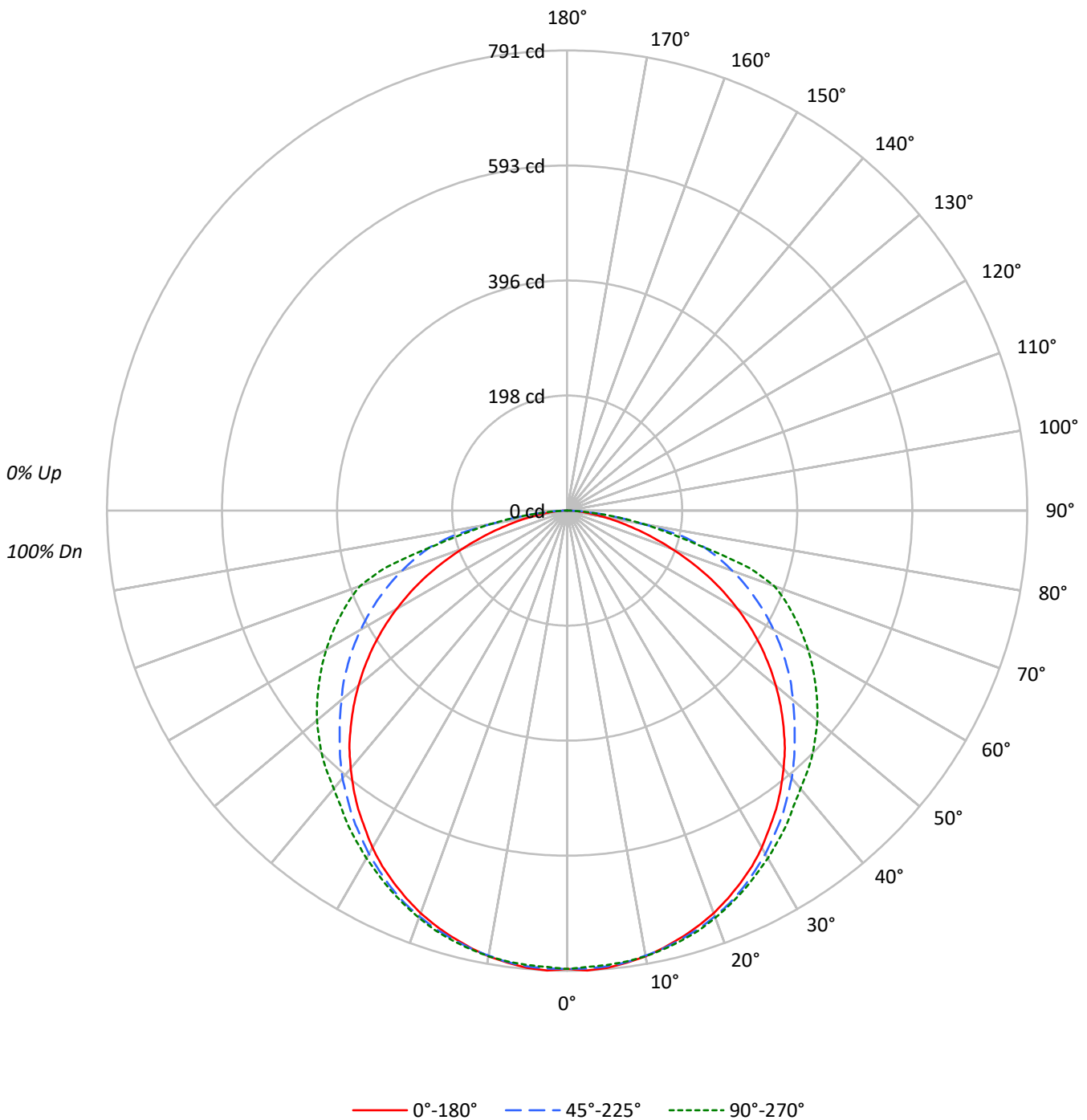
Input Watts (W): 30.783  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1060	1060	1060
5°	1066	1062	1059
10°	1063	1061	1063
15°	1058	1062	1065
20°	1054	1063	1067
25°	1048	1062	1068
30°	1040	1058	1072
35°	1029	1057	1081
40°	1016	1055	1096
45°	1001	1052	1134
50°	981	1060	1175
55°	953	1079	1222
60°	912	1103	1287
65°	849	1137	1371
70°	751	1188	1492
75°	630	1272	1253
80°	502	1005	1043
85°	397	679	624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.7	3.0
10°-20°	215.0	8.7
20°-30°	328.4	13.2
30°-40°	401.5	16.2
40°-50°	429.8	17.3
50°-60°	412.3	16.6
60°-70°	348.1	14.0
70°-80°	222.5	9.0
80°-90°	52.6	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°	618.2	24.9
0°-40°	1019.7	41.0
0°-60°	1861.8	74.9
0°-90°	2485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	789	784	786	785	784	75
15°	760	757	762	764	764	214
25°	706	705	716	718	719	325
35°	626	631	643	652	658	392
45°	526	535	553	579	596	406
55°	406	420	460	502	521	362
65°	267	292	357	407	431	263
75°	121	172	245	250	241	130
85°	26	43	44	43	40	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	787.8	787.8	787.8	787.8	787.8
2.5°	791.4	786.5	787.8	787.8	785.3
5°	789.0	784.1	786.5	785.3	784.1
7.5°	784.1	780.4	782.9	782.9	781.6
10°	778.0	774.3	776.8	778.0	778.0
12.5°	769.4	767.0	770.6	770.6	771.9
15°	759.6	757.2	762.1	764.5	764.5
17.5°	748.6	747.4	753.5	754.7	756.0
20°	736.4	735.2	742.5	742.5	745.0
22.5°	721.7	720.5	730.3	730.3	732.7
25°	705.8	704.6	715.6	718.0	719.3
27.5°	688.7	687.5	698.5	702.1	704.6
30°	669.1	669.1	681.3	686.2	689.9
32.5°	647.1	650.8	661.8	669.1	674.0
35°	626.3	631.2	643.4	652.0	658.1
37.5°	603.1	607.9	621.4	632.4	639.8
40°	578.6	584.7	600.6	612.8	623.9
42.5°	554.1	560.2	577.4	595.7	610.4
45°	526.0	534.6	552.9	578.6	595.7
47.5°	497.9	506.4	529.7	561.5	578.6
50°	468.5	478.3	506.4	543.1	561.5
52.5°	437.9	448.9	484.4	523.5	541.9
55°	406.1	419.6	459.9	501.5	521.1
57.5°	373.1	387.8	435.5	479.5	500.3
60°	338.8	357.2	409.8	456.3	478.3
62.5°	303.4	325.4	384.1	431.8	455.0
65°	266.7	292.4	357.2	407.3	430.6
67.5°	228.7	263.0	330.3	382.9	406.1
70°	190.8	231.2	302.1	356.0	379.2
72.5°	155.4	201.8	274.0	324.2	329.1
75°	121.1	172.5	244.6	249.5	241.0
77.5°	90.5	143.1	201.8	179.8	178.6
80°	64.8	115.0	129.7	133.3	134.6
82.5°	42.8	86.8	84.4	86.8	85.6
85°	25.7	42.8	44.0	42.8	40.4
87.5°	12.2	15.9	12.2	11.0	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)