

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: P263553

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263553  
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-L83050-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2813.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 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

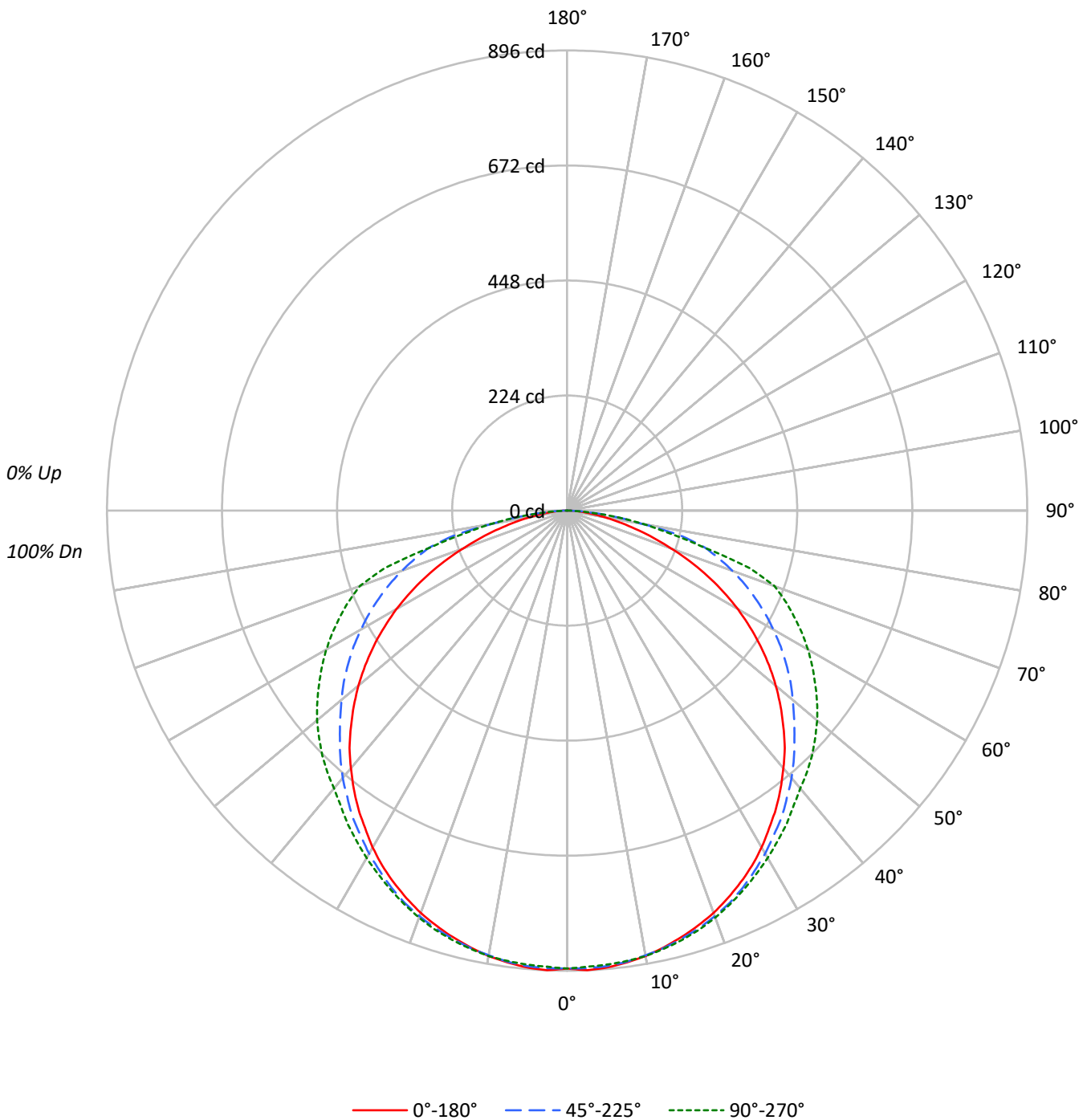
Input Watts (W): 30.411  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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°	1200	1200	1200
5°	1206	1203	1199
10°	1203	1201	1203
15°	1198	1202	1205
20°	1194	1203	1207
25°	1186	1203	1209
30°	1177	1198	1213
35°	1165	1196	1224
40°	1150	1194	1240
45°	1133	1191	1283
50°	1110	1200	1330
55°	1078	1221	1384
60°	1032	1248	1457
65°	961	1287	1552
70°	850	1345	1689
75°	713	1439	1418
80°	569	1137	1180
85°	449	769	706



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	3.0
10°-20°	243.4	8.7
20°-30°	371.8	13.2
30°-40°	454.5	16.2
40°-50°	486.5	17.3
50°-60°	466.7	16.6
60°-70°	394.0	14.0
70°-80°	251.8	9.0
80°-90°	59.6	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°	699.8	24.9
0°-40°	1154.3	41.0
0°-60°	2107.6	74.9
0°-90°	2813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2813.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	893	888	890	889	888	85
15°	860	857	863	865	865	243
25°	799	798	810	813	814	368
35°	709	714	728	738	745	443
45°	595	605	626	655	674	459
55°	460	475	521	568	590	410
65°	302	331	404	461	487	298
75°	137	195	277	282	273	148
85°	29	48	50	48	46	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	891.7	891.7	891.7	891.7	891.7
2.5°	895.9	890.4	891.7	891.7	889.0
5°	893.1	887.6	890.4	889.0	887.6
7.5°	887.6	883.4	886.2	886.2	884.8
10°	880.7	876.5	879.3	880.7	880.7
12.5°	871.0	868.2	872.4	872.4	873.7
15°	859.9	857.1	862.7	865.4	865.4
17.5°	847.4	846.0	853.0	854.4	855.7
20°	833.6	832.2	840.5	840.5	843.3
22.5°	817.0	815.6	826.7	826.7	829.4
25°	799.0	797.6	810.0	812.8	814.2
27.5°	779.6	778.2	790.7	794.8	797.6
30°	757.4	757.4	771.3	776.8	781.0
32.5°	732.5	736.7	749.1	757.4	763.0
35°	709.0	714.5	728.4	738.0	745.0
37.5°	682.7	688.2	703.4	715.9	724.2
40°	655.0	661.9	679.9	693.7	706.2
42.5°	627.3	634.2	653.6	674.3	691.0
45°	595.4	605.1	625.9	655.0	674.3
47.5°	563.6	573.3	599.6	635.6	655.0
50°	530.3	541.4	573.3	614.8	635.6
52.5°	495.7	508.2	548.3	592.7	613.4
55°	459.7	475.0	520.6	567.7	589.9
57.5°	422.3	438.9	493.0	542.8	566.3
60°	383.6	404.3	463.9	516.5	541.4
62.5°	343.4	368.3	434.8	488.8	515.1
65°	301.9	330.9	404.3	461.1	487.4
67.5°	258.9	297.7	373.9	433.4	459.7
70°	216.0	261.7	342.0	402.9	429.3
72.5°	175.9	228.5	310.2	366.9	372.5
75°	137.1	195.2	276.9	282.5	272.8
77.5°	102.5	162.0	228.5	203.6	202.2
80°	73.4	130.2	146.8	150.9	152.3
82.5°	48.5	98.3	95.5	98.3	96.9
85°	29.1	48.5	49.8	48.5	45.7
87.5°	13.8	18.0	13.8	12.5	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)