

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: P263517

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263517  
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-LD5-55-RDP-UNV-L83050-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3645.0 lumens  
Efficiency: N/A  
Efficacy: 91.1 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

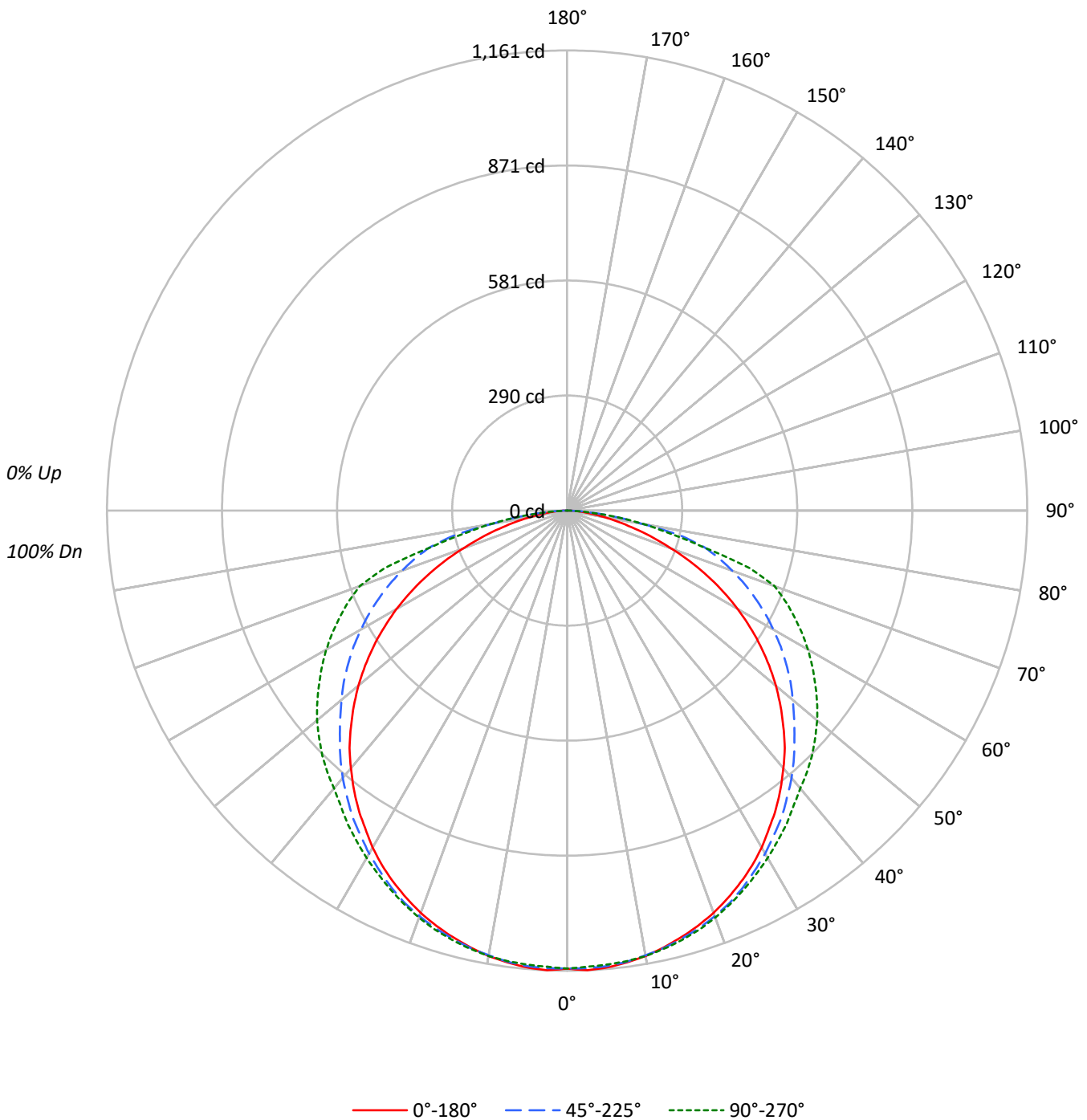
Input Watts (W): 40.002834  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1555	1555	1555
5°	1563	1558	1553
10°	1559	1557	1559
15°	1552	1557	1562
20°	1547	1559	1565
25°	1537	1558	1566
30°	1525	1553	1572
35°	1509	1550	1586
40°	1491	1547	1607
45°	1468	1543	1663
50°	1438	1555	1724
55°	1397	1582	1793
60°	1337	1618	1888
65°	1245	1668	2011
70°	1101	1744	2188
75°	923	1865	1838
80°	737	1474	1530
85°	582	997	914



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.6	3.0
10°-20°	315.4	8.7
20°-30°	481.8	13.2
30°-40°	589.0	16.2
40°-50°	630.5	17.3
50°-60°	604.7	16.6
60°-70°	510.6	14.0
70°-80°	326.3	9.0
80°-90°	77.2	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°	906.8	24.9
0°-40°	1495.8	41.0
0°-60°	2730.9	74.9
0°-90°	3645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3645.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1157	1150	1154	1152	1150	110
15°	1114	1111	1118	1121	1121	315
25°	1035	1034	1050	1053	1055	477
35°	919	926	944	956	965	574
45°	772	784	811	849	874	595
55°	596	615	675	736	764	532
65°	391	429	524	598	632	386
75°	178	253	359	366	354	191
85°	38	63	65	63	59	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1155.5	1155.5	1155.5	1155.5	1155.5
2.5°	1160.9	1153.7	1155.5	1155.5	1151.9
5°	1157.3	1150.1	1153.7	1151.9	1150.1
7.5°	1150.1	1144.7	1148.3	1148.3	1146.5
10°	1141.1	1135.8	1139.3	1141.1	1141.1
12.5°	1128.6	1125.0	1130.4	1130.4	1132.2
15°	1114.2	1110.6	1117.8	1121.4	1121.4
17.5°	1098.1	1096.3	1105.3	1107.1	1108.8
20°	1080.1	1078.3	1089.1	1089.1	1092.7
22.5°	1058.6	1056.8	1071.2	1071.2	1074.8
25°	1035.3	1033.5	1049.6	1053.2	1055.0
27.5°	1010.2	1008.4	1024.5	1029.9	1033.5
30°	981.5	981.5	999.4	1006.6	1012.0
32.5°	949.2	954.5	970.7	981.5	988.6
35°	918.7	925.8	943.8	956.3	965.3
37.5°	884.6	891.7	911.5	927.6	938.4
40°	848.7	857.7	881.0	898.9	915.1
42.5°	812.8	821.8	846.9	873.8	895.3
45°	771.5	784.1	811.0	848.7	873.8
47.5°	730.3	742.8	776.9	823.6	848.7
50°	687.2	701.6	742.8	796.6	823.6
52.5°	642.3	658.5	710.5	767.9	794.9
55°	595.7	615.4	674.6	735.6	764.3
57.5°	547.2	568.8	638.8	703.3	733.8
60°	497.0	523.9	601.1	669.3	701.6
62.5°	445.0	477.3	563.4	633.4	667.5
65°	391.1	428.8	523.9	597.5	631.6
67.5°	335.5	385.8	484.4	561.6	595.7
70°	279.9	339.1	443.2	522.1	556.2
72.5°	227.9	296.1	401.9	475.5	482.7
75°	177.6	253.0	358.8	366.0	353.5
77.5°	132.8	209.9	296.1	263.8	262.0
80°	95.1	168.7	190.2	195.6	197.4
82.5°	62.8	127.4	123.8	127.4	125.6
85°	37.7	62.8	64.6	62.8	59.2
87.5°	17.9	23.3	17.9	16.1	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)