

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: P263518

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263518  
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-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3857.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 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

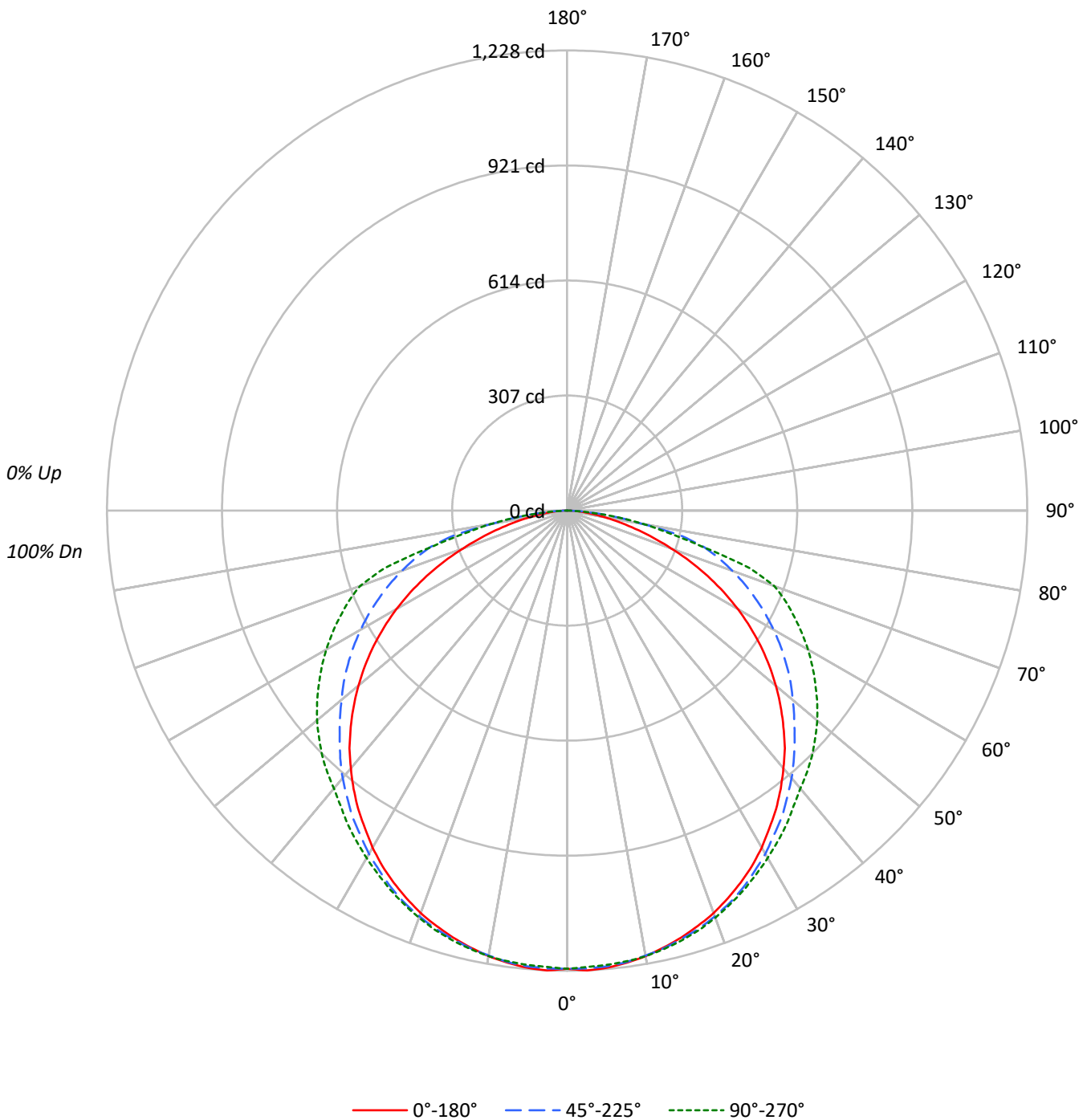
Input Watts (W): 40.083  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	61	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°	1645	1645	1645
5°	1654	1649	1644
10°	1650	1647	1650
15°	1642	1648	1653
20°	1637	1650	1656
25°	1626	1649	1657
30°	1613	1643	1664
35°	1597	1640	1678
40°	1577	1637	1701
45°	1553	1633	1759
50°	1522	1645	1824
55°	1479	1675	1897
60°	1415	1711	1998
65°	1318	1765	2128
70°	1165	1845	2316
75°	977	1974	1944
80°	779	1560	1618
85°	616	1054	968



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.0	3.0
10°-20°	333.7	8.7
20°-30°	509.8	13.2
30°-40°	623.2	16.2
40°-50°	667.1	17.3
50°-60°	639.9	16.6
60°-70°	540.3	14.0
70°-80°	345.3	9.0
80°-90°	81.7	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°	959.5	24.9
0°-40°	1582.8	41.0
0°-60°	2889.8	74.9
0°-90°	3857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3857.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1225	1217	1221	1219	1217	116
15°	1179	1175	1183	1187	1187	333
25°	1096	1094	1111	1114	1116	505
35°	972	980	999	1012	1021	608
45°	816	830	858	898	925	630
55°	630	651	714	778	809	563
65°	414	454	554	632	668	408
75°	188	268	380	387	374	202
85°	40	66	68	66	63	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1222.7	1222.7	1222.7	1222.7	1222.7
2.5°	1228.4	1220.8	1222.7	1222.7	1218.9
5°	1224.6	1217.0	1220.8	1218.9	1217.0
7.5°	1217.0	1211.3	1215.1	1215.1	1213.2
10°	1207.5	1201.8	1205.6	1207.5	1207.5
12.5°	1194.2	1190.4	1196.1	1196.1	1198.0
15°	1179.0	1175.2	1182.8	1186.6	1186.6
17.5°	1161.9	1160.0	1169.5	1171.4	1173.3
20°	1143.0	1141.1	1152.5	1152.5	1156.3
22.5°	1120.2	1118.3	1133.5	1133.5	1137.3
25°	1095.5	1093.6	1110.7	1114.5	1116.4
27.5°	1068.9	1067.0	1084.1	1089.8	1093.6
30°	1038.5	1038.5	1057.5	1065.1	1070.8
32.5°	1004.4	1010.1	1027.1	1038.5	1046.1
35°	972.1	979.7	998.7	1012.0	1021.4
37.5°	936.0	943.6	964.5	981.6	993.0
40°	898.0	907.5	932.2	951.2	968.3
42.5°	860.1	869.6	896.1	924.6	947.4
45°	816.4	829.7	858.2	898.0	924.6
47.5°	772.7	786.0	822.1	871.5	898.0
50°	727.2	742.4	786.0	843.0	871.5
52.5°	679.7	696.8	751.8	812.6	841.1
55°	630.3	651.2	713.9	778.4	808.8
57.5°	579.1	601.9	675.9	744.3	776.5
60°	525.9	554.4	636.0	708.2	742.4
62.5°	470.9	505.0	596.2	670.2	706.3
65°	413.9	453.8	554.4	632.2	668.3
67.5°	355.0	408.2	512.6	594.3	630.3
70°	296.2	358.8	469.0	552.5	588.6
72.5°	241.1	313.3	425.3	503.1	510.7
75°	188.0	267.7	379.7	387.3	374.0
77.5°	140.5	222.1	313.3	279.1	277.2
80°	100.6	178.5	201.3	206.9	208.8
82.5°	66.5	134.8	131.0	134.8	132.9
85°	39.9	66.5	68.3	66.5	62.7
87.5°	19.0	24.7	19.0	17.1	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)