

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: P263776

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263776  
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-LD5-50SE-RDP-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3633.0 lumens  
Efficiency: N/A  
Efficacy: 87.6 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

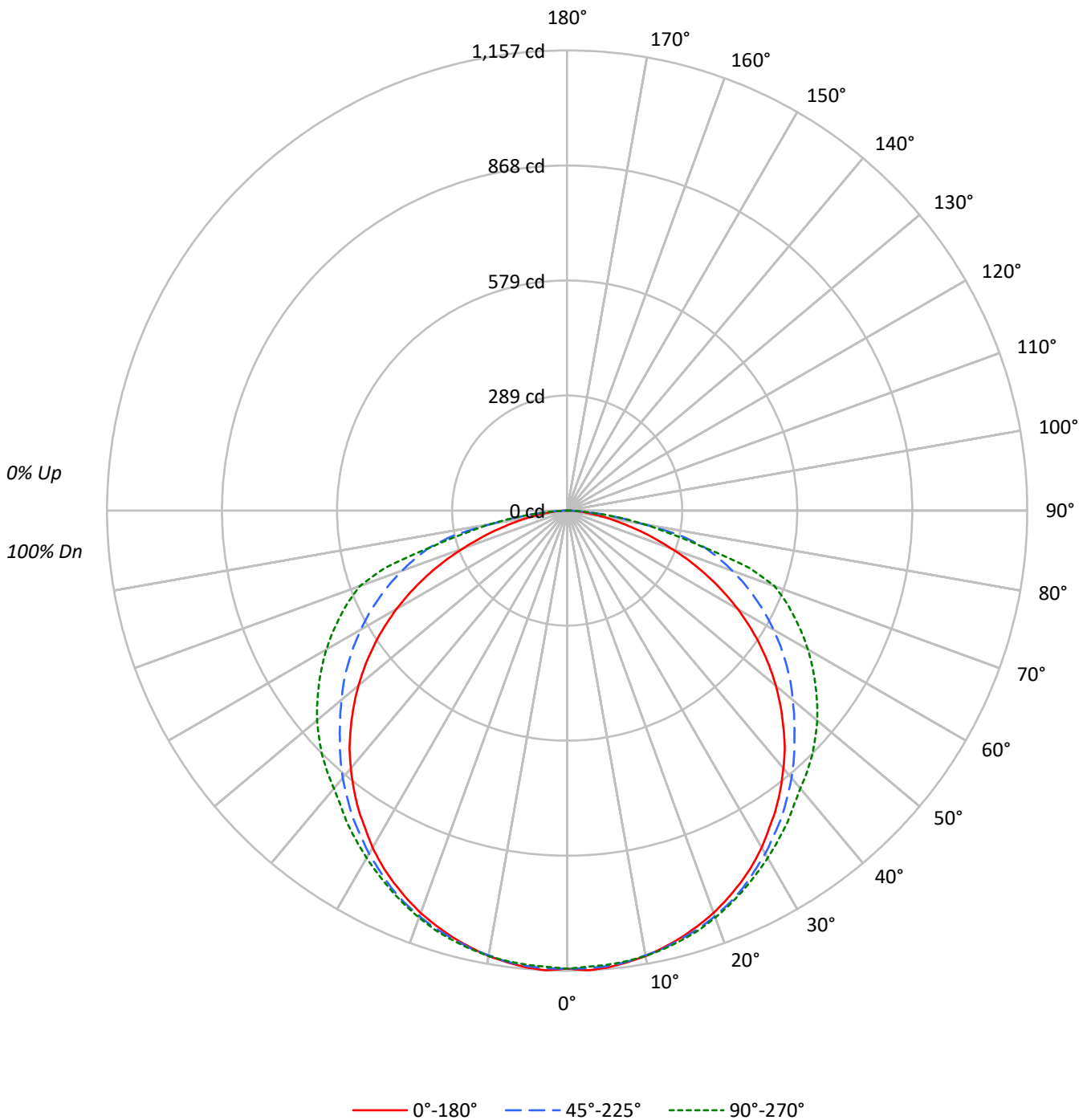
Input Watts (W): 41.478  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1550	1550	1550
5°	1558	1553	1548
10°	1554	1552	1554
15°	1547	1552	1557
20°	1542	1554	1559
25°	1532	1553	1561
30°	1520	1548	1567
35°	1504	1545	1580
40°	1486	1542	1602
45°	1463	1538	1657
50°	1434	1550	1718
55°	1393	1577	1787
60°	1333	1612	1882
65°	1241	1663	2004
70°	1098	1738	2181
75°	920	1860	1831
80°	735	1469	1524
85°	580	994	911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.2	3.0
10°-20°	314.4	8.7
20°-30°	480.2	13.2
30°-40°	587.1	16.2
40°-50°	628.4	17.3
50°-60°	602.7	16.6
60°-70°	508.9	14.0
70°-80°	325.2	9.0
80°-90°	76.9	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°	903.8	24.9
0°-40°	1490.8	41.0
0°-60°	2721.9	74.9
0°-90°	3633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3633.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1154	1146	1150	1148	1146	110
15°	1111	1107	1114	1118	1118	314
25°	1032	1030	1046	1050	1052	476
35°	916	923	941	953	962	572
45°	769	782	808	846	871	593
55°	594	613	672	733	762	530
65°	390	427	522	596	630	385
75°	177	252	358	365	352	191
85°	38	63	64	63	59	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1151.7	1151.7	1151.7	1151.7	1151.7
2.5°	1157.1	1149.9	1151.7	1151.7	1148.1
5°	1153.5	1146.3	1149.9	1148.1	1146.3
7.5°	1146.3	1141.0	1144.5	1144.5	1142.7
10°	1137.4	1132.0	1135.6	1137.4	1137.4
12.5°	1124.9	1121.3	1126.7	1126.7	1128.4
15°	1110.6	1107.0	1114.1	1117.7	1117.7
17.5°	1094.5	1092.7	1101.6	1103.4	1105.2
20°	1076.6	1074.8	1085.5	1085.5	1089.1
22.5°	1055.1	1053.3	1067.6	1067.6	1071.2
25°	1031.9	1030.1	1046.2	1049.8	1051.5
27.5°	1006.8	1005.0	1021.1	1026.5	1030.1
30°	978.2	978.2	996.1	1003.3	1008.6
32.5°	946.0	951.4	967.5	978.2	985.4
35°	915.6	922.8	940.7	953.2	962.1
37.5°	881.7	888.8	908.5	924.6	935.3
40°	845.9	854.8	878.1	896.0	912.1
42.5°	810.1	819.1	844.1	870.9	892.4
45°	769.0	781.5	808.3	845.9	870.9
47.5°	727.9	740.4	774.4	820.8	845.9
50°	684.9	699.2	740.4	794.0	820.8
52.5°	640.2	656.3	708.2	765.4	792.2
55°	593.7	613.4	672.4	733.2	761.8
57.5°	545.4	566.9	636.6	701.0	731.4
60°	495.4	522.2	599.1	667.1	699.2
62.5°	443.5	475.7	561.5	631.3	665.3
65°	389.9	427.4	522.2	595.5	629.5
67.5°	334.4	384.5	482.9	559.8	593.7
70°	279.0	338.0	441.7	520.4	554.4
72.5°	227.1	295.1	400.6	473.9	481.1
75°	177.0	252.2	357.7	364.8	352.3
77.5°	132.3	209.2	295.1	262.9	261.1
80°	94.8	168.1	189.6	194.9	196.7
82.5°	62.6	127.0	123.4	127.0	125.2
85°	37.6	62.6	64.4	62.6	59.0
87.5°	17.9	23.2	17.9	16.1	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)