

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: P263775

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263775
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3624.0 lumens
Efficiency: N/A
Efficacy: 88.8 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

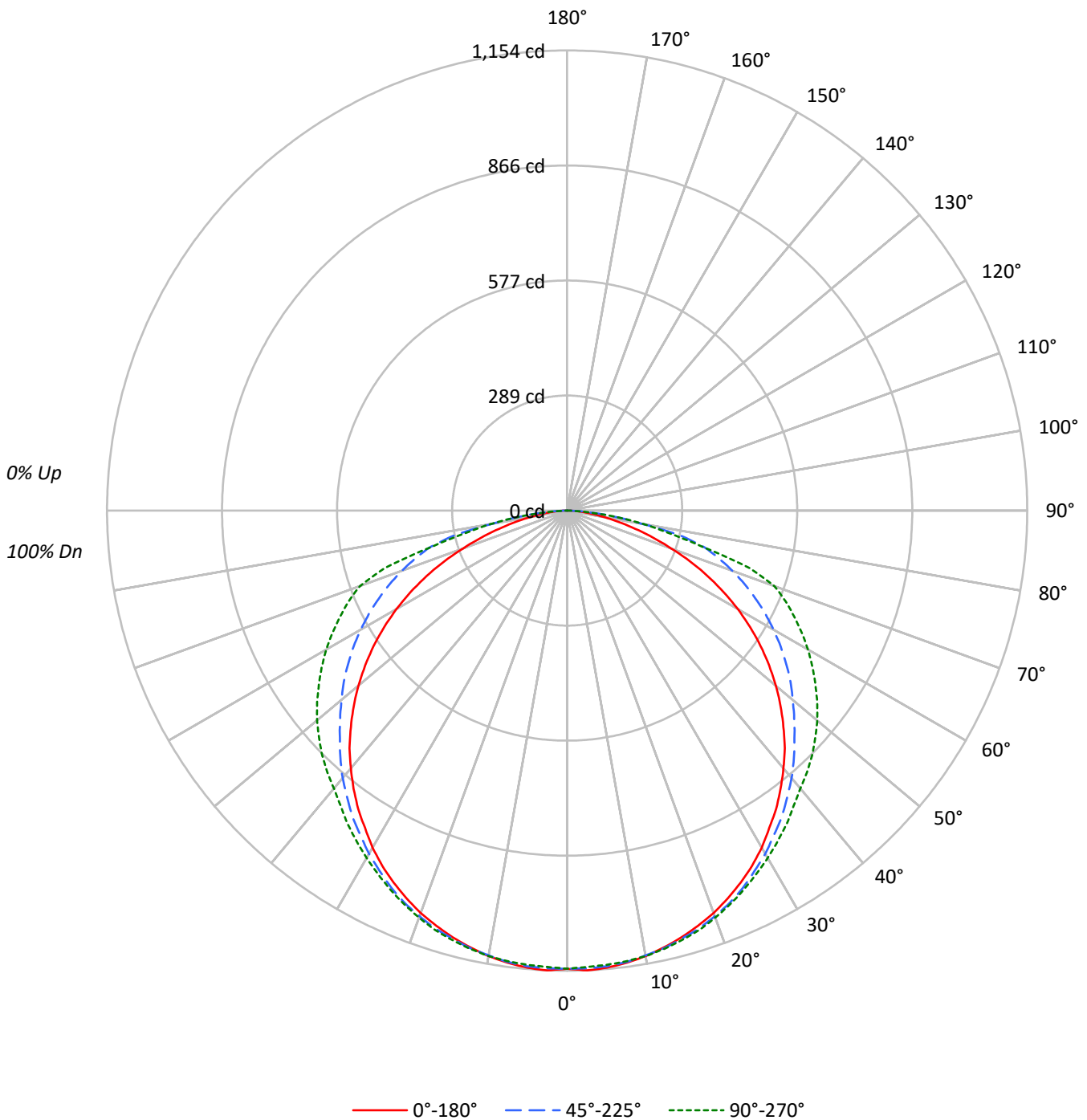
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1546	1546	1546
5°	1554	1549	1544
10°	1550	1548	1550
15°	1543	1548	1553
20°	1538	1550	1556
25°	1528	1549	1557
30°	1516	1544	1563
35°	1500	1541	1576
40°	1482	1538	1598
45°	1460	1534	1653
50°	1430	1546	1714
55°	1389	1574	1783
60°	1330	1608	1877
65°	1238	1658	1999
70°	1095	1733	2175
75°	918	1855	1827
80°	732	1465	1520
85°	579	991	909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.0
10°-20°	313.6	8.7
20°-30°	479.0	13.2
30°-40°	585.6	16.2
40°-50°	626.8	17.3
50°-60°	601.2	16.6
60°-70°	507.6	14.0
70°-80°	324.4	9.0
80°-90°	76.7	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°	901.5	24.9
0°-40°	1487.1	41.0
0°-60°	2715.2	74.9
0°-90°	3624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3624.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1151	1144	1147	1145	1144	109
15°	1108	1104	1111	1115	1115	313
25°	1029	1028	1044	1047	1049	474
35°	913	920	938	951	960	571
45°	767	780	806	844	869	592
55°	592	612	671	731	760	529
65°	389	426	521	594	628	384
75°	177	252	357	364	351	190
85°	38	62	64	62	59	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.8	1148.8	1148.8	1148.8	1148.8
2.5°	1154.2	1147.1	1148.8	1148.8	1145.3
5°	1150.6	1143.5	1147.1	1145.3	1143.5
7.5°	1143.5	1138.1	1141.7	1141.7	1139.9
10°	1134.6	1129.2	1132.8	1134.6	1134.6
12.5°	1122.1	1118.5	1123.9	1123.9	1125.6
15°	1107.8	1104.2	1111.4	1114.9	1114.9
17.5°	1091.8	1090.0	1098.9	1100.7	1102.5
20°	1073.9	1072.1	1082.8	1082.8	1086.4
22.5°	1052.5	1050.7	1065.0	1065.0	1068.6
25°	1029.3	1027.5	1043.6	1047.2	1048.9
27.5°	1004.3	1002.6	1018.6	1024.0	1027.5
30°	975.8	975.8	993.6	1000.8	1006.1
32.5°	943.7	949.0	965.1	975.8	982.9
35°	913.4	920.5	938.3	950.8	959.7
37.5°	879.5	886.6	906.2	922.3	933.0
40°	843.8	852.7	875.9	893.7	909.8
42.5°	808.1	817.0	842.0	868.8	890.2
45°	767.1	779.6	806.3	843.8	868.8
47.5°	726.1	738.5	772.4	818.8	843.8
50°	683.2	697.5	738.5	792.1	818.8
52.5°	638.6	654.7	706.4	763.5	790.3
55°	592.3	611.9	670.8	731.4	759.9
57.5°	544.1	565.5	635.1	699.3	729.6
60°	494.1	520.9	597.6	665.4	697.5
62.5°	442.4	474.5	560.1	629.7	663.6
65°	388.9	426.4	520.9	594.0	627.9
67.5°	333.6	383.5	481.7	558.4	592.3
70°	278.3	337.2	440.6	519.1	553.0
72.5°	226.6	294.3	399.6	472.7	479.9
75°	176.6	251.5	356.8	363.9	351.4
77.5°	132.0	208.7	294.3	262.2	260.5
80°	94.5	167.7	189.1	194.4	196.2
82.5°	62.4	126.7	123.1	126.7	124.9
85°	37.5	62.4	64.2	62.4	58.9
87.5°	17.8	23.2	17.8	16.1	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)