

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: P263276

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-60-SQP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3664.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

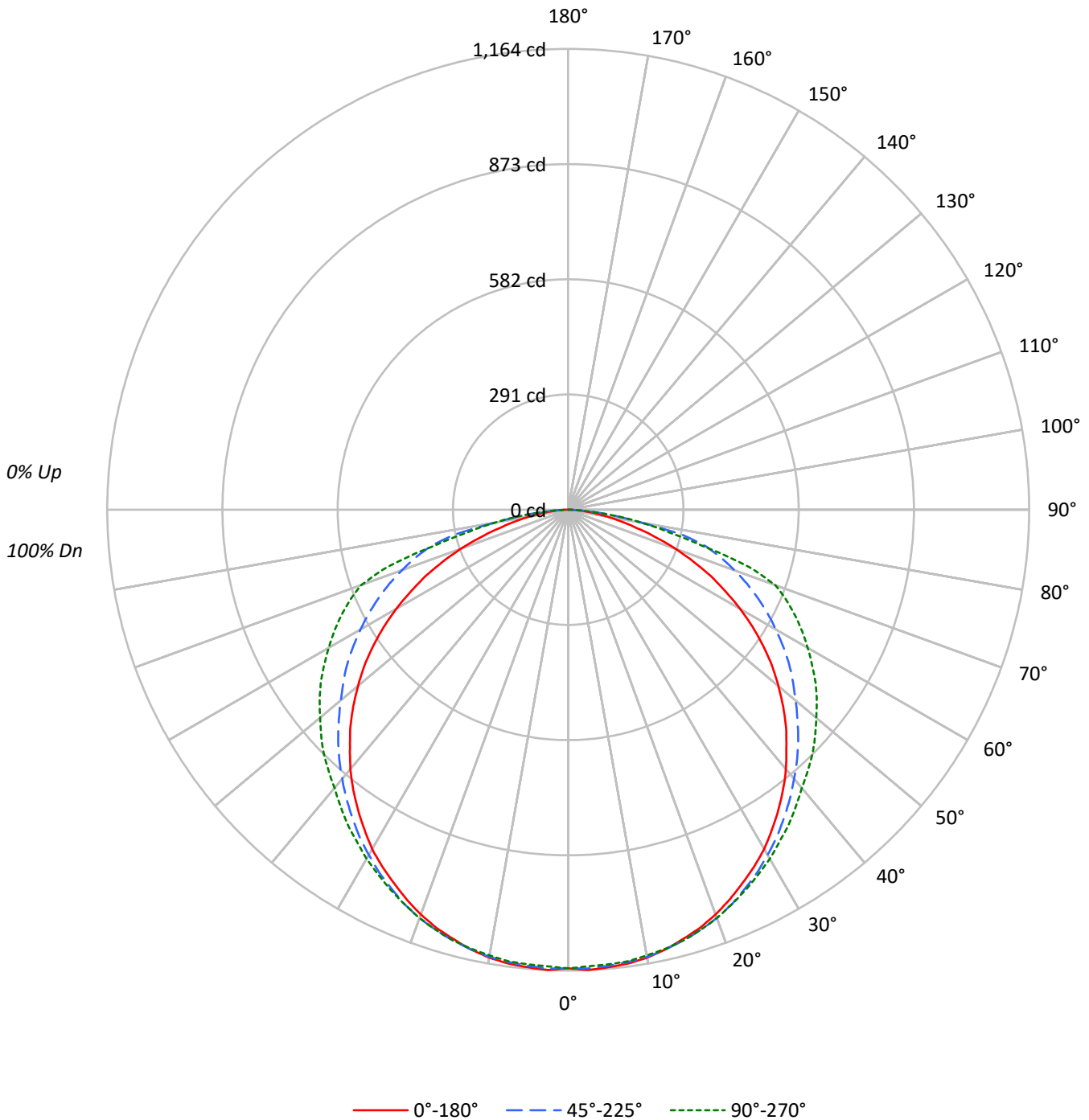
Input Watts (W): 44.268
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	1558	1558	1558
5°	1567	1562	1557
10°	1570	1567	1562
15°	1563	1569	1569
20°	1558	1572	1572
25°	1545	1568	1573
30°	1538	1564	1582
35°	1520	1561	1595
40°	1502	1559	1612
45°	1480	1563	1660
50°	1450	1569	1711
55°	1412	1598	1789
60°	1350	1630	1879
65°	1265	1681	2012
70°	1132	1757	2189
75°	935	1879	1810
80°	762	1452	1467
85°	613	965	906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.0
10°-20°	317.4	8.7
20°-30°	485.1	13.2
30°-40°	593.3	16.2
40°-50°	634.9	17.3
50°-60°	607.9	16.6
60°-70°	514.3	14.0
70°-80°	326.0	8.9
80°-90°	75.0	2.0
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°	912.6	24.9
0°-40°	1505.9	41.1
0°-60°	2748.7	75.0
0°-90°	3664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1160	1154	1156	1154	1153	110
15°	1122	1120	1126	1126	1126	317
25°	1041	1041	1056	1060	1060	480
35°	926	931	950	963	971	579
45°	778	791	821	855	872	599
55°	602	621	681	738	763	537
65°	397	435	528	600	632	392
75°	180	254	362	360	348	195
85°	40	61	62	57	59	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.3	1158.3	1158.3	1158.3	1158.3
2.5°	1163.9	1158.3	1160.2	1158.3	1154.5
5°	1160.2	1154.5	1156.4	1154.5	1152.6
7.5°	1156.4	1150.7	1152.6	1150.7	1150.7
10°	1148.8	1143.1	1146.9	1145.0	1143.1
12.5°	1137.4	1133.7	1137.4	1135.5	1135.5
15°	1122.3	1120.4	1126.1	1126.1	1126.1
17.5°	1107.2	1105.3	1112.8	1112.8	1112.8
20°	1088.2	1086.3	1097.7	1097.7	1097.7
22.5°	1065.5	1063.6	1078.8	1078.8	1078.8
25°	1040.9	1040.9	1056.1	1059.8	1059.8
27.5°	1016.3	1016.3	1033.3	1039.0	1039.0
30°	989.8	989.8	1006.9	1014.4	1018.2
32.5°	957.6	961.4	980.4	989.8	993.6
35°	925.5	931.1	950.1	963.3	970.9
37.5°	891.4	897.1	919.8	934.9	944.4
40°	855.4	863.0	887.6	906.5	917.9
42.5°	815.7	827.1	855.4	880.0	895.2
45°	777.9	791.1	821.4	855.4	872.5
47.5°	736.2	751.4	785.4	829.0	846.0
50°	692.7	707.8	749.5	798.7	817.6
52.5°	649.2	666.2	715.4	768.4	791.1
55°	601.8	620.8	681.3	738.1	762.7
57.5°	552.6	575.3	643.5	704.0	730.5
60°	501.5	529.9	605.6	670.0	698.4
62.5°	448.5	482.6	567.8	635.9	666.2
65°	397.4	435.3	528.0	599.9	632.1
67.5°	342.6	389.9	488.3	565.9	596.2
70°	287.7	342.6	446.6	526.1	556.4
72.5°	232.8	299.0	405.0	476.9	476.9
75°	179.8	253.6	361.5	359.6	348.2
77.5°	136.3	212.0	297.1	253.6	255.5
80°	98.4	170.3	187.4	187.4	189.3
82.5°	66.2	130.6	121.1	119.2	123.0
85°	39.7	60.6	62.5	56.8	58.7
87.5°	18.9	20.8	17.0	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)