

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: P263270

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263270
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-LD5-55-SQP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3667.0 lumens
Efficiency: N/A
Efficacy: 90.4 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

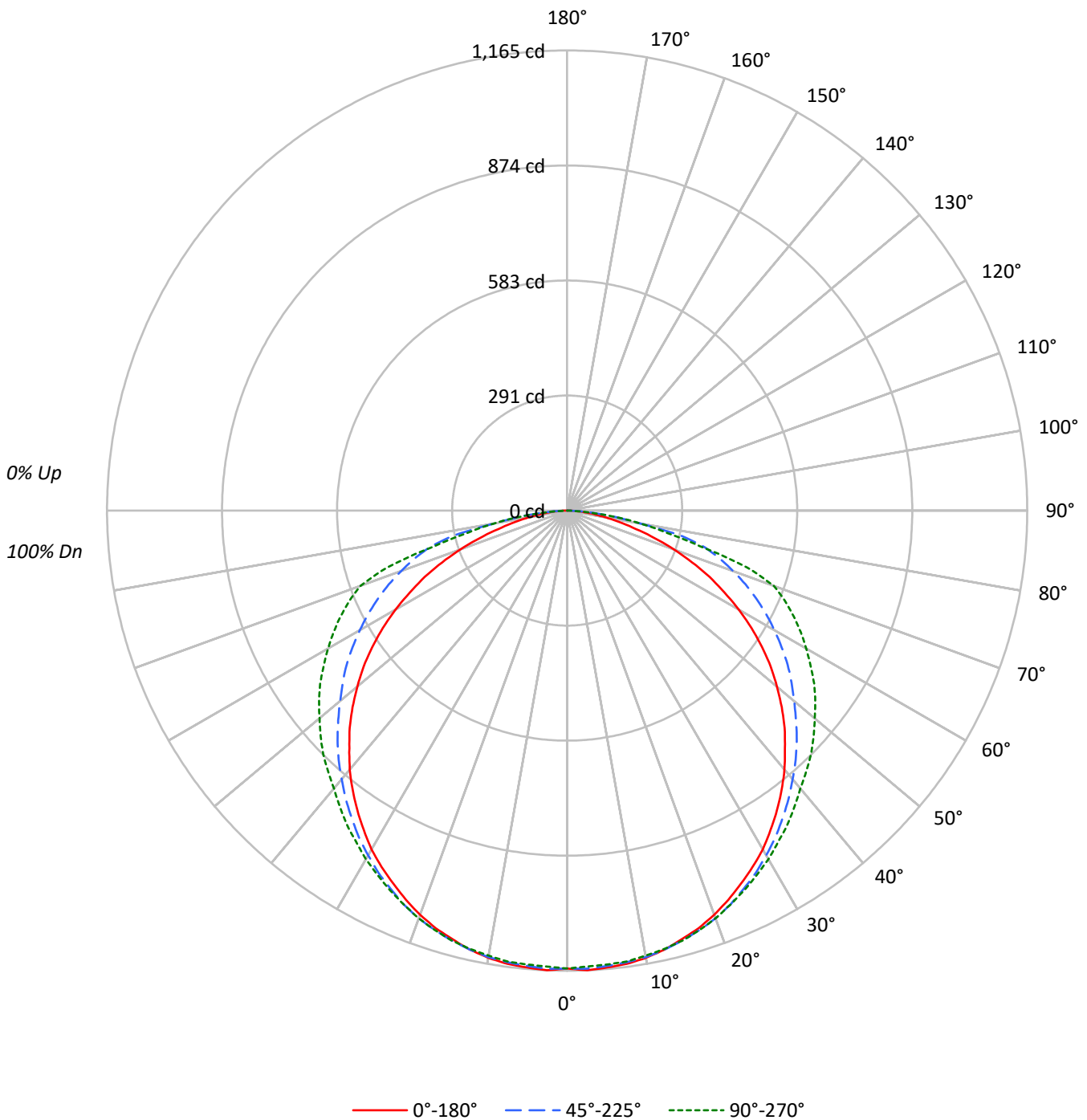
Input Watts (W): 40.548
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1560	1560	1560
5°	1568	1563	1558
10°	1571	1568	1563
15°	1565	1570	1570
20°	1559	1573	1573
25°	1547	1569	1575
30°	1539	1566	1583
35°	1521	1562	1596
40°	1504	1560	1614
45°	1481	1564	1662
50°	1451	1570	1713
55°	1413	1600	1791
60°	1351	1631	1881
65°	1266	1683	2014
70°	1133	1758	2191
75°	935	1881	1812
80°	763	1453	1468
85°	614	965	906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.0
10°-20°	317.7	8.7
20°-30°	485.5	13.2
30°-40°	593.8	16.2
40°-50°	635.4	17.3
50°-60°	608.4	16.6
60°-70°	514.7	14.0
70°-80°	326.3	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°	913.3	24.9
0°-40°	1507.1	41.1
0°-60°	2751.0	75.0
0°-90°	3667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1161	1155	1157	1155	1154	110
15°	1123	1121	1127	1127	1127	317
25°	1042	1042	1057	1061	1061	481
35°	926	932	951	964	972	579
45°	778	792	822	856	873	600
55°	602	621	682	739	763	537
65°	398	436	528	600	633	392
75°	180	254	362	360	348	196
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°	1159.2	1159.2	1159.2	1159.2	1159.2
2.5°	1164.9	1159.2	1161.1	1159.2	1155.4
5°	1161.1	1155.4	1157.3	1155.4	1153.5
7.5°	1157.3	1151.6	1153.5	1151.6	1151.6
10°	1149.7	1144.1	1147.8	1145.9	1144.1
12.5°	1138.4	1134.6	1138.4	1136.5	1136.5
15°	1123.2	1121.3	1127.0	1127.0	1127.0
17.5°	1108.1	1106.2	1113.7	1113.7	1113.7
20°	1089.1	1087.2	1098.6	1098.6	1098.6
22.5°	1066.4	1064.5	1079.7	1079.7	1079.7
25°	1041.8	1041.8	1056.9	1060.7	1060.7
27.5°	1017.1	1017.1	1034.2	1039.9	1039.9
30°	990.6	990.6	1007.7	1015.3	1019.0
32.5°	958.4	962.2	981.2	990.6	994.4
35°	926.2	931.9	950.9	964.1	971.7
37.5°	892.1	897.8	920.5	935.7	945.2
40°	856.1	863.7	888.3	907.3	918.7
42.5°	816.4	827.7	856.1	880.8	895.9
45°	778.5	791.7	822.1	856.1	873.2
47.5°	736.8	752.0	786.1	829.6	846.7
50°	693.3	708.4	750.1	799.3	818.3
52.5°	649.7	666.7	716.0	769.0	791.7
55°	602.3	621.3	681.9	738.7	763.3
57.5°	553.1	575.8	644.0	704.6	731.1
60°	501.9	530.4	606.1	670.5	698.9
62.5°	448.9	483.0	568.2	636.4	666.7
65°	397.8	435.6	528.5	600.4	632.6
67.5°	342.8	390.2	488.7	566.3	596.7
70°	287.9	342.8	447.0	526.6	556.9
72.5°	233.0	299.3	405.3	477.3	477.3
75°	179.9	253.8	361.8	359.9	348.5
77.5°	136.4	212.1	297.4	253.8	255.7
80°	98.5	170.5	187.5	187.5	189.4
82.5°	66.3	130.7	121.2	119.3	123.1
85°	39.8	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)