

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: P263687

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263687
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-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3540.0 lumens
Efficiency: N/A
Efficacy: 88.3 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

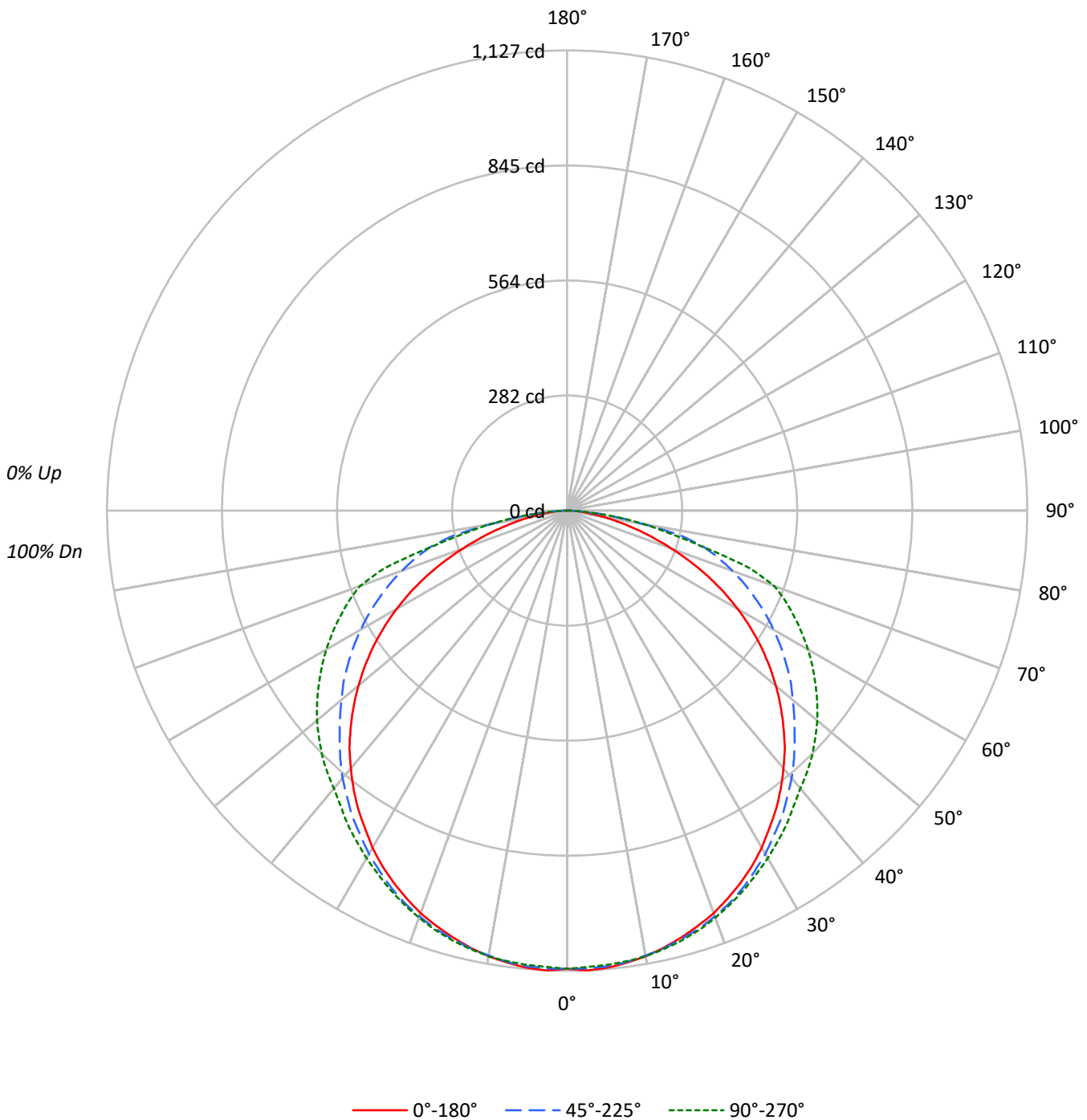
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1510	1510	1510
5°	1518	1513	1509
10°	1514	1512	1514
15°	1507	1512	1517
20°	1502	1514	1519
25°	1493	1513	1521
30°	1481	1508	1527
35°	1465	1506	1540
40°	1448	1503	1561
45°	1426	1499	1615
50°	1397	1510	1674
55°	1357	1537	1741
60°	1299	1571	1833
65°	1209	1620	1953
70°	1069	1693	2125
75°	897	1812	1785
80°	716	1431	1485
85°	565	968	888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	3.0
10°-20°	306.3	8.7
20°-30°	467.9	13.2
30°-40°	572.0	16.2
40°-50°	612.3	17.3
50°-60°	587.3	16.6
60°-70°	495.9	14.0
70°-80°	316.9	9.0
80°-90°	74.9	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°	880.6	24.9
0°-40°	1452.7	41.0
0°-60°	2652.2	74.9
0°-90°	3540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1124	1117	1120	1119	1117	107
15°	1082	1079	1086	1089	1089	306
25°	1006	1004	1019	1023	1025	463
35°	892	899	917	929	938	558
45°	749	762	788	824	849	578
55°	578	598	655	714	742	516
65°	380	416	509	580	613	375
75°	172	246	348	356	343	186
85°	37	61	63	61	58	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.2	1122.2	1122.2	1122.2	1122.2
2.5°	1127.4	1120.5	1122.2	1122.2	1118.7
5°	1124.0	1117.0	1120.5	1118.7	1117.0
7.5°	1117.0	1111.8	1115.2	1115.2	1113.5
10°	1108.3	1103.0	1106.5	1108.3	1108.3
12.5°	1096.1	1092.6	1097.8	1097.8	1099.6
15°	1082.1	1078.6	1085.6	1089.1	1089.1
17.5°	1066.4	1064.7	1073.4	1075.2	1076.9
20°	1049.0	1047.3	1057.7	1057.7	1061.2
22.5°	1028.1	1026.4	1040.3	1040.3	1043.8
25°	1005.5	1003.7	1019.4	1022.9	1024.6
27.5°	981.1	979.3	995.0	1000.2	1003.7
30°	953.2	953.2	970.6	977.6	982.8
32.5°	921.8	927.0	942.7	953.2	960.2
35°	892.2	899.2	916.6	928.8	937.5
37.5°	859.1	866.1	885.2	900.9	911.4
40°	824.2	832.9	855.6	873.0	888.7
42.5°	789.4	798.1	822.5	848.6	869.5
45°	749.3	761.5	787.6	824.2	848.6
47.5°	709.2	721.4	754.5	799.8	824.2
50°	667.4	681.3	721.4	773.7	799.8
52.5°	623.8	639.5	690.1	745.8	772.0
55°	578.5	597.7	655.2	714.5	742.3
57.5°	531.5	552.4	620.4	683.1	712.7
60°	482.7	508.8	583.8	650.0	681.3
62.5°	432.2	463.5	547.2	615.1	648.2
65°	379.9	416.5	508.8	580.3	613.4
67.5°	325.9	374.7	470.5	545.4	578.5
70°	271.8	329.3	430.4	507.1	540.2
72.5°	221.3	287.5	390.3	461.8	468.7
75°	172.5	245.7	348.5	355.5	343.3
77.5°	128.9	203.9	287.5	256.2	254.4
80°	92.4	163.8	184.7	189.9	191.7
82.5°	61.0	123.7	120.2	123.7	122.0
85°	36.6	61.0	62.7	61.0	57.5
87.5°	17.4	22.7	17.4	15.7	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)