

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: P263832

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263832
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-LD5-60-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3416.0 lumens
Efficiency: N/A
Efficacy: 77.8 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

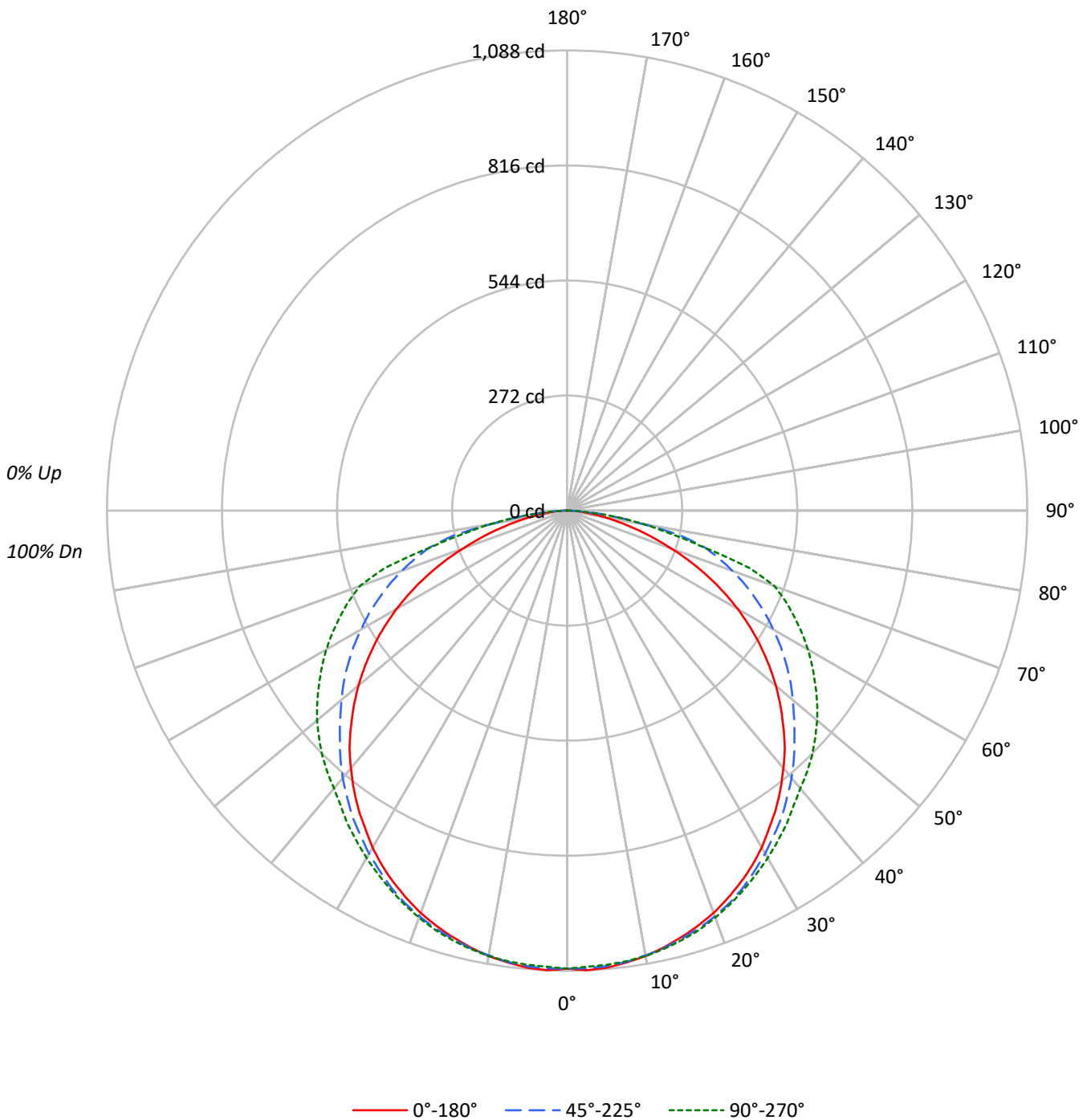
Input Watts (W): 43.896
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1457	1457	1457
5°	1465	1460	1456
10°	1461	1459	1461
15°	1455	1459	1464
20°	1449	1461	1466
25°	1440	1460	1468
30°	1429	1455	1473
35°	1414	1453	1486
40°	1397	1450	1506
45°	1376	1446	1558
50°	1348	1457	1616
55°	1310	1483	1680
60°	1253	1516	1769
65°	1167	1563	1884
70°	1032	1634	2051
75°	866	1748	1722
80°	690	1381	1433
85°	545	934	857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.0
10°-20°	295.6	8.7
20°-30°	451.5	13.2
30°-40°	552.0	16.2
40°-50°	590.8	17.3
50°-60°	566.7	16.6
60°-70°	478.5	14.0
70°-80°	305.8	9.0
80°-90°	72.3	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°	849.8	24.9
0°-40°	1401.8	41.0
0°-60°	2559.4	74.9
0°-90°	3416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1085	1078	1081	1080	1078	103
15°	1044	1041	1048	1051	1051	295
25°	970	969	984	987	989	447
35°	861	868	884	896	905	538
45°	723	735	760	795	819	558
55°	558	577	632	689	716	498
65°	367	402	491	560	592	362
75°	166	237	336	343	331	179
85°	35	59	60	59	56	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1082.9	1082.9	1082.9	1082.9	1082.9
2.5°	1087.9	1081.2	1082.9	1082.9	1079.5
5°	1084.6	1077.9	1081.2	1079.5	1077.9
7.5°	1077.9	1072.8	1076.2	1076.2	1074.5
10°	1069.4	1064.4	1067.8	1069.4	1069.4
12.5°	1057.7	1054.3	1059.4	1059.4	1061.0
15°	1044.2	1040.9	1047.6	1051.0	1051.0
17.5°	1029.1	1027.4	1035.8	1037.5	1039.2
20°	1012.3	1010.6	1020.7	1020.7	1024.0
22.5°	992.1	990.4	1003.9	1003.9	1007.2
25°	970.2	968.6	983.7	987.1	988.7
27.5°	946.7	945.0	960.1	965.2	968.6
30°	919.8	919.8	936.6	943.3	948.4
32.5°	889.5	894.6	909.7	919.8	926.5
35°	860.9	867.7	884.5	896.3	904.7
37.5°	829.0	835.7	854.2	869.3	879.4
40°	795.4	803.8	825.6	842.4	857.6
42.5°	761.7	770.1	793.7	818.9	839.1
45°	723.1	734.8	760.0	795.4	818.9
47.5°	684.4	696.2	728.1	771.8	795.4
50°	644.0	657.5	696.2	746.6	771.8
52.5°	602.0	617.1	665.9	719.7	744.9
55°	558.3	576.8	632.3	689.4	716.3
57.5°	512.9	533.0	598.6	659.2	687.7
60°	465.8	491.0	563.3	627.2	657.5
62.5°	417.0	447.3	528.0	593.6	625.5
65°	366.6	401.9	491.0	559.9	591.9
67.5°	314.4	361.5	454.0	526.3	558.3
70°	262.3	317.8	415.3	489.3	521.3
72.5°	213.6	277.5	376.7	445.6	452.3
75°	166.5	237.1	336.3	343.0	331.3
77.5°	124.4	196.7	277.5	247.2	245.5
80°	89.1	158.1	178.2	183.3	185.0
82.5°	58.9	119.4	116.0	119.4	117.7
85°	35.3	58.9	60.5	58.9	55.5
87.5°	16.8	21.9	16.8	15.1	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)