

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: P263825

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263825
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-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3407.0 lumens
Efficiency: N/A
Efficacy: 84.0 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

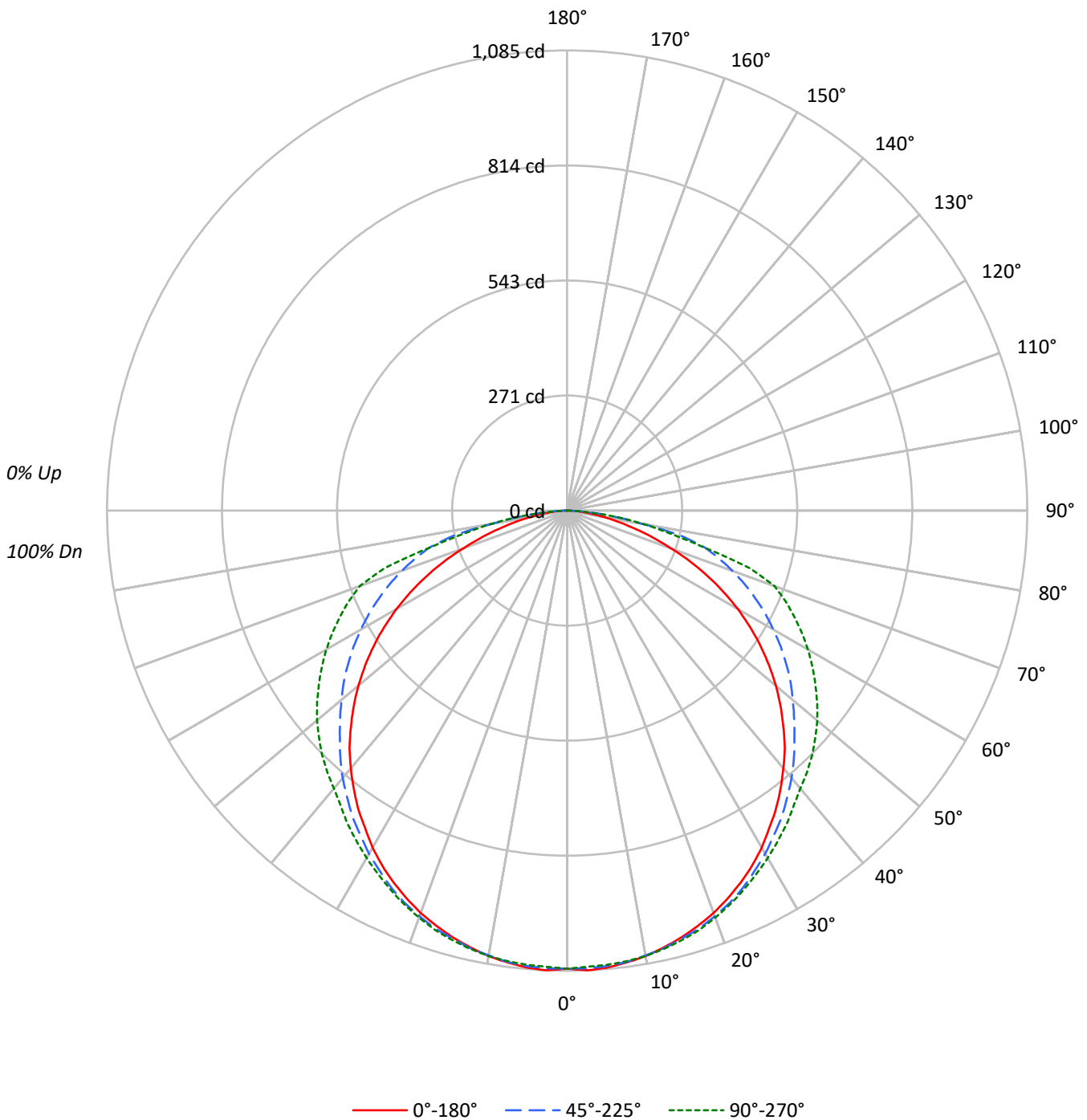
Input Watts (W): 40.548
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1453	1453	1453
5°	1461	1457	1452
10°	1457	1455	1457
15°	1451	1455	1460
20°	1446	1458	1462
25°	1437	1457	1464
30°	1425	1451	1470
35°	1410	1449	1482
40°	1393	1446	1502
45°	1372	1442	1554
50°	1344	1453	1611
55°	1306	1479	1676
60°	1250	1512	1764
65°	1164	1559	1879
70°	1029	1629	2045
75°	863	1744	1718
80°	689	1378	1430
85°	543	932	854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	3.0
10°-20°	294.8	8.7
20°-30°	450.3	13.2
30°-40°	550.5	16.2
40°-50°	589.3	17.3
50°-60°	565.2	16.6
60°-70°	477.2	14.0
70°-80°	305.0	9.0
80°-90°	72.1	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°	847.6	24.9
0°-40°	1398.1	41.0
0°-60°	2552.6	74.9
0°-90°	3407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1082	1075	1078	1077	1075	103
15°	1042	1038	1045	1048	1048	294
25°	968	966	981	984	986	446
35°	859	865	882	894	902	537
45°	721	733	758	793	817	556
55°	557	575	631	688	714	497
65°	366	401	490	558	590	361
75°	166	236	335	342	330	179
85°	35	59	60	59	55	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.0	1080.0	1080.0	1080.0	1080.0
2.5°	1085.1	1078.4	1080.0	1080.0	1076.7
5°	1081.7	1075.0	1078.4	1076.7	1075.0
7.5°	1075.0	1070.0	1073.3	1073.3	1071.7
10°	1066.6	1061.6	1065.0	1066.6	1066.6
12.5°	1054.9	1051.5	1056.6	1056.6	1058.2
15°	1041.5	1038.1	1044.8	1048.2	1048.2
17.5°	1026.4	1024.7	1033.1	1034.8	1036.4
20°	1009.6	1007.9	1018.0	1018.0	1021.3
22.5°	989.5	987.8	1001.2	1001.2	1004.6
25°	967.7	966.0	981.1	984.5	986.1
27.5°	944.2	942.5	957.6	962.7	966.0
30°	917.4	917.4	934.1	940.8	945.9
32.5°	887.2	892.2	907.3	917.4	924.1
35°	858.7	865.4	882.2	893.9	902.3
37.5°	826.8	833.5	852.0	867.1	877.1
40°	793.3	801.7	823.5	840.2	855.3
42.5°	759.7	768.1	791.6	816.7	836.9
45°	721.1	732.9	758.0	793.3	816.7
47.5°	682.6	694.3	726.2	769.8	793.3
50°	642.3	655.7	694.3	744.6	769.8
52.5°	600.4	615.5	664.1	717.8	743.0
55°	556.8	575.2	630.6	687.6	714.4
57.5°	511.5	531.6	597.0	657.4	685.9
60°	464.6	489.7	561.8	625.6	655.7
62.5°	415.9	446.1	526.6	592.0	623.9
65°	365.6	400.8	489.7	558.5	590.3
67.5°	313.6	360.6	452.8	524.9	556.8
70°	261.6	317.0	414.2	488.0	519.9
72.5°	213.0	276.7	375.7	444.4	451.1
75°	166.0	236.5	335.4	342.1	330.4
77.5°	124.1	196.2	276.7	246.5	244.9
80°	88.9	157.6	177.8	182.8	184.5
82.5°	58.7	119.1	115.7	119.1	117.4
85°	35.2	58.7	60.4	58.7	55.3
87.5°	16.8	21.8	16.8	15.1	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)