

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: P263520

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263520
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-L83050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4089.0 lumens
Efficiency: N/A
Efficacy: 97.2 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

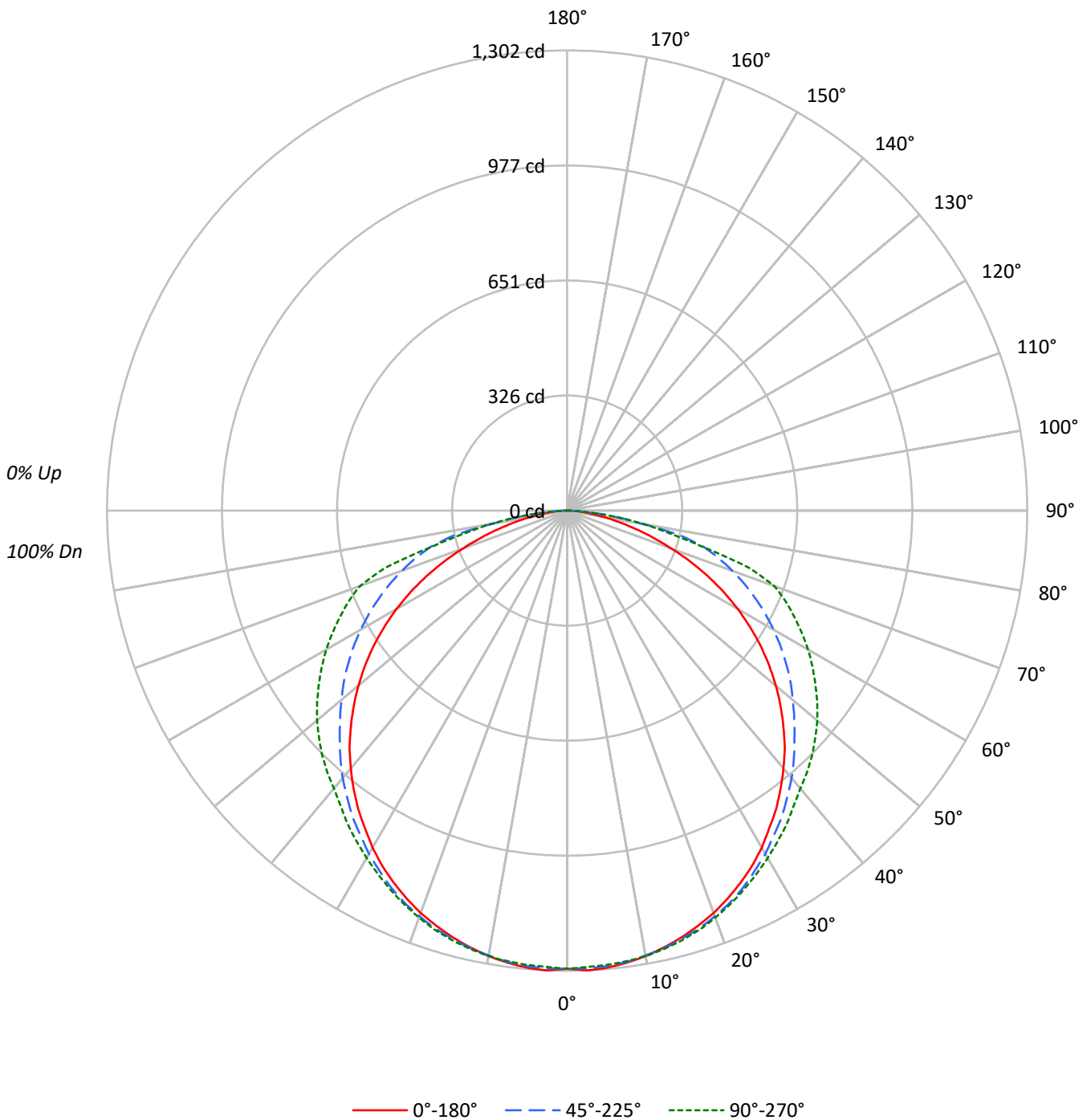
Input Watts (W): 42.047067
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1744	1744	1744
5°	1754	1748	1743
10°	1749	1746	1749
15°	1741	1747	1752
20°	1735	1749	1755
25°	1724	1748	1757
30°	1711	1742	1764
35°	1693	1739	1779
40°	1672	1736	1803
45°	1647	1731	1865
50°	1614	1744	1934
55°	1568	1775	2012
60°	1500	1815	2118
65°	1397	1871	2256
70°	1235	1956	2455
75°	1036	2093	2061
80°	827	1654	1715
85°	653	1119	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.0
10°-20°	353.8	8.7
20°-30°	540.4	13.2
30°-40°	660.7	16.2
40°-50°	707.2	17.3
50°-60°	678.4	16.6
60°-70°	572.8	14.0
70°-80°	366.1	9.0
80°-90°	86.6	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°	1017.2	24.9
0°-40°	1678.0	41.0
0°-60°	3063.6	74.9
0°-90°	4089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1298	1290	1294	1292	1290	123
15°	1250	1246	1254	1258	1258	353
25°	1161	1159	1178	1182	1184	535
35°	1031	1039	1059	1073	1083	644
45°	866	880	910	952	980	668
55°	668	690	757	825	858	596
65°	439	481	588	670	708	433
75°	199	284	403	411	396	215
85°	42	70	72	70	66	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.2	1296.2	1296.2	1296.2	1296.2
2.5°	1302.3	1294.2	1296.2	1296.2	1292.2
5°	1298.3	1290.2	1294.2	1292.2	1290.2
7.5°	1290.2	1284.2	1288.2	1288.2	1286.2
10°	1280.1	1274.1	1278.1	1280.1	1280.1
12.5°	1266.1	1262.0	1268.1	1268.1	1270.1
15°	1250.0	1245.9	1254.0	1258.0	1258.0
17.5°	1231.8	1229.8	1239.9	1241.9	1243.9
20°	1211.7	1209.7	1221.8	1221.8	1225.8
22.5°	1187.6	1185.5	1201.6	1201.6	1205.7
25°	1161.4	1159.4	1177.5	1181.5	1183.5
27.5°	1133.2	1131.2	1149.3	1155.4	1159.4
30°	1101.0	1101.0	1121.1	1129.2	1135.2
32.5°	1064.8	1070.8	1088.9	1101.0	1109.1
35°	1030.6	1038.6	1058.7	1072.8	1082.9
37.5°	992.3	1000.4	1022.5	1040.6	1052.7
40°	952.1	962.1	988.3	1008.4	1026.5
42.5°	911.8	921.9	950.0	980.2	1004.4
45°	865.5	879.6	909.8	952.1	980.2
47.5°	819.2	833.3	871.5	923.9	952.1
50°	770.9	787.0	833.3	893.7	923.9
52.5°	720.6	738.7	797.1	861.5	891.7
55°	668.3	690.4	756.8	825.3	857.5
57.5°	613.9	638.1	716.6	789.0	823.2
60°	557.5	587.7	674.3	750.8	787.0
62.5°	499.2	535.4	632.0	710.5	748.8
65°	438.8	481.1	587.7	670.3	708.5
67.5°	376.4	432.8	543.5	630.0	668.3
70°	314.0	380.4	497.2	585.7	624.0
72.5°	255.6	332.1	450.9	533.4	541.4
75°	199.3	283.8	402.6	410.6	396.5
77.5°	148.9	235.5	332.1	295.9	293.9
80°	106.7	189.2	213.4	219.4	221.4
82.5°	70.4	142.9	138.9	142.9	140.9
85°	42.3	70.4	72.5	70.4	66.4
87.5°	20.1	26.2	20.1	18.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)