

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: P263519

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263519
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4050.0 lumens
Efficiency: N/A
Efficacy: 98.8 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

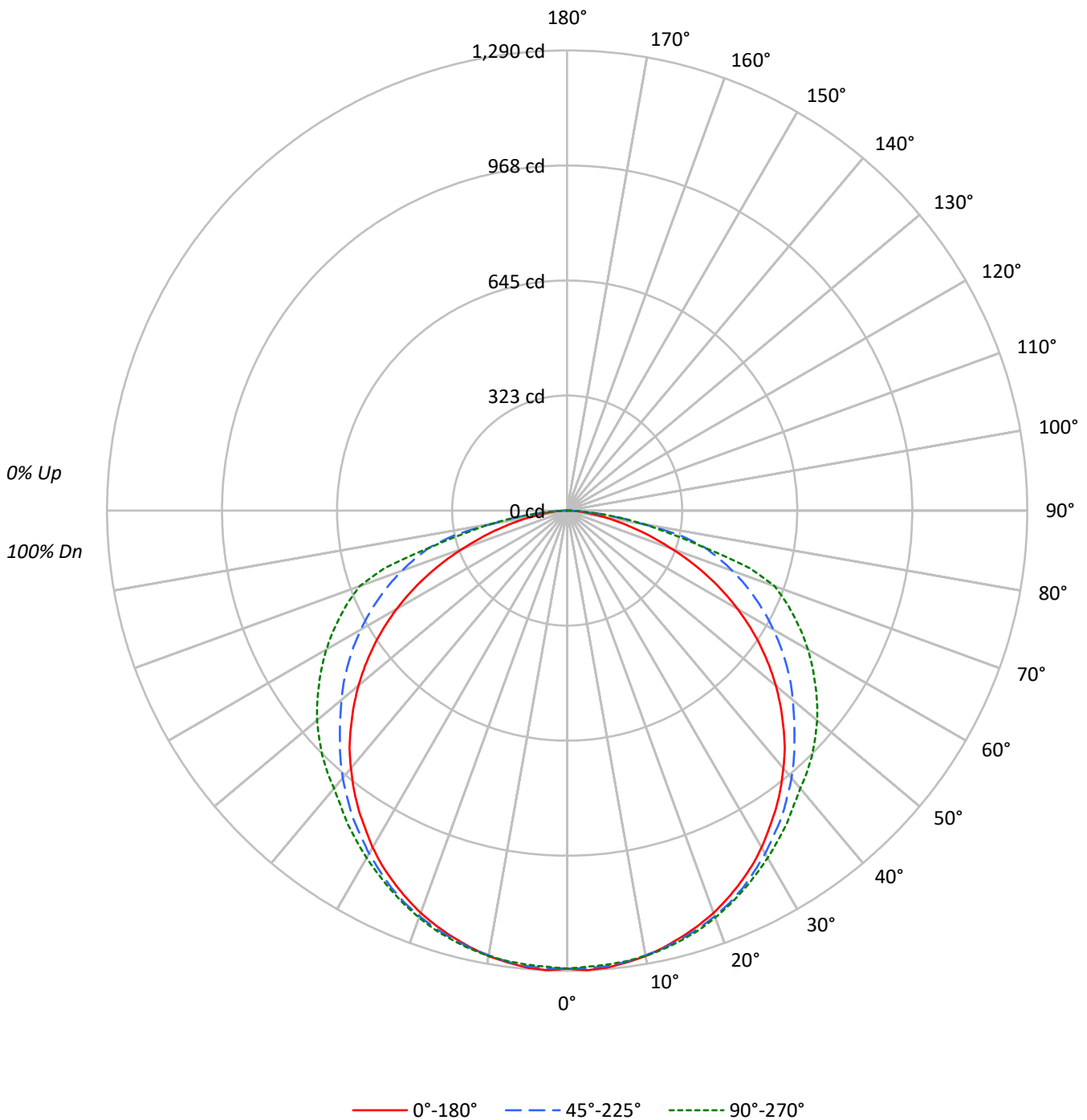
Input Watts (W): 41.004909
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1727	1727	1727
5°	1737	1731	1726
10°	1732	1730	1732
15°	1724	1730	1736
20°	1718	1733	1738
25°	1708	1731	1740
30°	1694	1725	1747
35°	1677	1722	1762
40°	1656	1719	1786
45°	1631	1715	1847
50°	1598	1728	1915
55°	1553	1758	1992
60°	1486	1797	2098
65°	1384	1853	2234
70°	1223	1937	2431
75°	1026	2073	2041
80°	819	1637	1699
85°	647	1108	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.0
10°-20°	350.5	8.7
20°-30°	535.3	13.2
30°-40°	654.4	16.2
40°-50°	700.5	17.3
50°-60°	671.9	16.6
60°-70°	567.3	14.0
70°-80°	362.6	9.0
80°-90°	85.7	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°	1007.5	24.9
0°-40°	1661.9	41.0
0°-60°	3034.4	74.9
0°-90°	4050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1286	1278	1282	1280	1278	122
15°	1238	1234	1242	1246	1246	350
25°	1150	1148	1166	1170	1172	530
35°	1021	1029	1049	1063	1073	638
45°	857	871	901	943	971	661
55°	662	684	750	817	849	591
65°	435	476	582	664	702	429
75°	197	281	399	407	393	212
85°	42	70	72	70	66	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.9	1283.9	1283.9	1283.9	1283.9
2.5°	1289.9	1281.9	1283.9	1283.9	1279.9
5°	1285.9	1277.9	1281.9	1279.9	1277.9
7.5°	1277.9	1271.9	1275.9	1275.9	1273.9
10°	1267.9	1262.0	1265.9	1267.9	1267.9
12.5°	1254.0	1250.0	1256.0	1256.0	1258.0
15°	1238.0	1234.0	1242.0	1246.0	1246.0
17.5°	1220.1	1218.1	1228.1	1230.1	1232.1
20°	1200.2	1198.2	1210.1	1210.1	1214.1
22.5°	1176.2	1174.2	1190.2	1190.2	1194.2
25°	1150.3	1148.3	1166.3	1170.2	1172.2
27.5°	1122.4	1120.4	1138.4	1144.3	1148.3
30°	1090.5	1090.5	1110.4	1118.4	1124.4
32.5°	1054.6	1060.6	1078.5	1090.5	1098.5
35°	1020.7	1028.7	1048.6	1062.6	1072.6
37.5°	982.8	990.8	1012.8	1030.7	1042.7
40°	943.0	952.9	978.9	998.8	1016.7
42.5°	903.1	913.1	941.0	970.9	994.8
45°	857.3	871.2	901.1	943.0	970.9
47.5°	811.4	825.4	863.2	915.1	943.0
50°	763.6	779.5	825.4	885.2	915.1
52.5°	713.7	731.7	789.5	853.3	883.2
55°	661.9	683.8	749.6	817.4	849.3
57.5°	608.1	632.0	709.7	781.5	815.4
60°	552.2	582.1	667.9	743.6	779.5
62.5°	494.4	530.3	626.0	703.7	741.6
65°	434.6	476.5	582.1	663.9	701.8
67.5°	372.8	428.6	538.3	624.0	661.9
70°	311.0	376.8	492.4	580.1	618.0
72.5°	253.2	328.9	446.6	528.3	536.3
75°	197.4	281.1	398.7	406.7	392.7
77.5°	147.5	233.3	328.9	293.1	291.1
80°	105.7	187.4	211.3	217.3	219.3
82.5°	69.8	141.5	137.6	141.5	139.6
85°	41.9	69.8	71.8	69.8	65.8
87.5°	19.9	25.9	19.9	17.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)