

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: P263692

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263692
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-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3972.0 lumens
Efficiency: N/A
Efficacy: 96.8 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

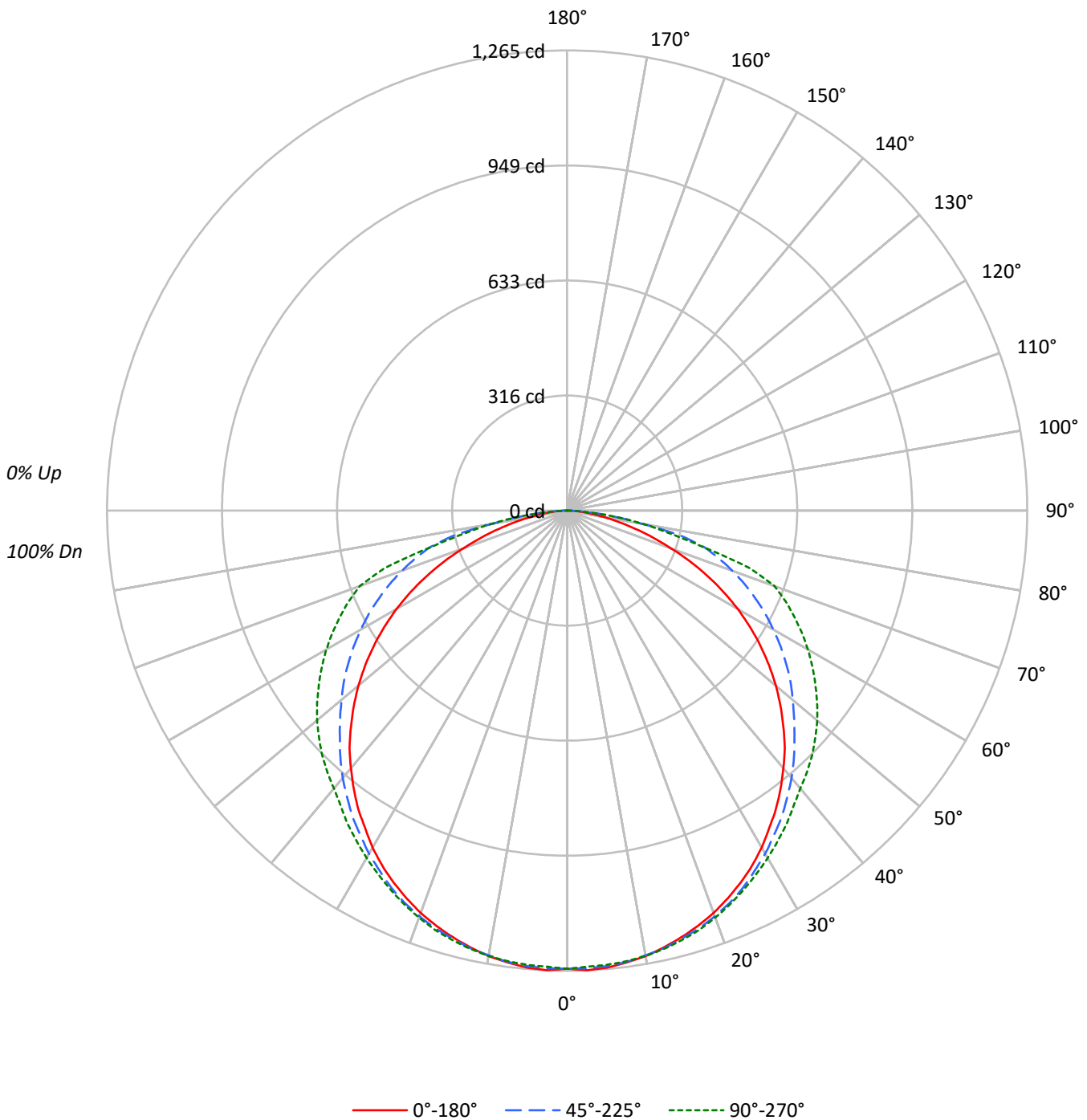
Input Watts (W): 41.013
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27					27			
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1694	1694	1694
5°	1703	1698	1693
10°	1699	1696	1699
15°	1691	1697	1702
20°	1685	1699	1705
25°	1675	1698	1707
30°	1662	1692	1713
35°	1644	1689	1728
40°	1624	1686	1751
45°	1600	1682	1812
50°	1567	1694	1878
55°	1523	1725	1954
60°	1457	1763	2057
65°	1357	1818	2191
70°	1200	1900	2384
75°	1006	2033	2002
80°	803	1606	1667
85°	634	1087	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.0
10°-20°	343.7	8.7
20°-30°	525.0	13.2
30°-40°	641.8	16.2
40°-50°	687.0	17.3
50°-60°	659.0	16.6
60°-70°	556.4	14.0
70°-80°	355.6	9.0
80°-90°	84.1	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°	988.1	24.9
0°-40°	1629.9	41.0
0°-60°	2975.9	74.9
0°-90°	3972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1261	1253	1257	1255	1253	120
15°	1214	1210	1218	1222	1222	343
25°	1128	1126	1144	1148	1150	520
35°	1001	1009	1028	1042	1052	626
45°	841	854	884	925	952	648
55°	649	671	735	802	833	579
65°	426	467	571	651	688	420
75°	194	276	391	399	385	208
85°	41	68	70	68	64	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259.2	1259.2	1259.2	1259.2	1259.2
2.5°	1265.0	1257.2	1259.2	1259.2	1255.2
5°	1261.1	1253.3	1257.2	1255.2	1253.3
7.5°	1253.3	1247.4	1251.3	1251.3	1249.4
10°	1243.5	1237.6	1241.6	1243.5	1243.5
12.5°	1229.8	1225.9	1231.8	1231.8	1233.7
15°	1214.2	1210.3	1218.1	1222.0	1222.0
17.5°	1196.6	1194.6	1204.4	1206.4	1208.3
20°	1177.0	1175.1	1186.8	1186.8	1190.7
22.5°	1153.6	1151.6	1167.3	1167.3	1171.2
25°	1128.2	1126.2	1143.8	1147.7	1149.7
27.5°	1100.8	1098.8	1116.4	1122.3	1126.2
30°	1069.5	1069.5	1089.1	1096.9	1102.7
32.5°	1034.3	1040.2	1057.8	1069.5	1077.3
35°	1001.1	1008.9	1028.4	1042.1	1051.9
37.5°	963.9	971.7	993.2	1010.8	1022.6
40°	924.8	934.6	960.0	979.6	997.2
42.5°	885.7	895.5	922.9	952.2	975.7
45°	840.7	854.4	883.8	924.8	952.2
47.5°	795.8	809.5	846.6	897.4	924.8
50°	748.8	764.5	809.5	868.1	897.4
52.5°	700.0	717.6	774.3	836.8	866.2
55°	649.1	670.6	735.2	801.6	832.9
57.5°	596.3	619.8	696.1	766.4	799.7
60°	541.6	570.9	655.0	729.3	764.5
62.5°	484.9	520.1	613.9	690.2	727.3
65°	426.2	467.3	570.9	651.1	688.2
67.5°	365.6	420.4	527.9	612.0	649.1
70°	305.0	369.5	482.9	569.0	606.1
72.5°	248.3	322.6	438.0	518.1	526.0
75°	193.6	275.7	391.0	398.9	385.2
77.5°	144.7	228.8	322.6	287.4	285.5
80°	103.6	183.8	207.3	213.1	215.1
82.5°	68.4	138.8	134.9	138.8	136.9
85°	41.1	68.4	70.4	68.4	64.5
87.5°	19.6	25.4	19.6	17.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)