

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: P263694

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263694
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4021.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

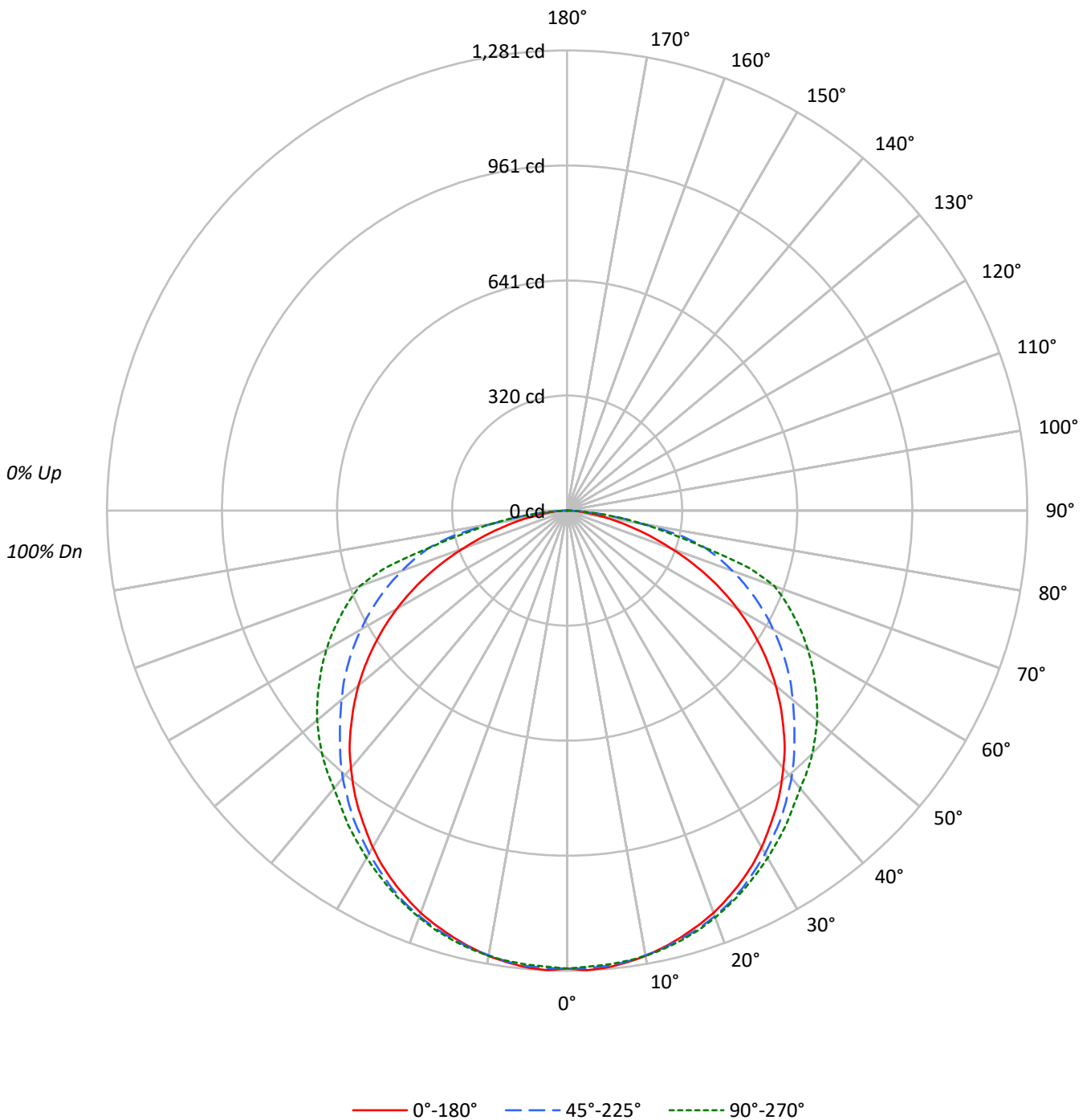
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1715	1715	1715
5°	1724	1719	1714
10°	1720	1717	1720
15°	1712	1718	1723
20°	1706	1720	1726
25°	1696	1719	1728
30°	1682	1713	1734
35°	1665	1710	1749
40°	1644	1707	1773
45°	1619	1702	1834
50°	1587	1715	1902
55°	1541	1746	1978
60°	1475	1784	2083
65°	1374	1840	2218
70°	1215	1923	2414
75°	1019	2058	2027
80°	813	1626	1687
85°	642	1101	1008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.0
10°-20°	347.9	8.7
20°-30°	531.5	13.2
30°-40°	649.7	16.2
40°-50°	695.5	17.3
50°-60°	667.1	16.6
60°-70°	563.3	14.0
70°-80°	360.0	9.0
80°-90°	85.1	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°	1000.3	24.9
0°-40°	1650.1	41.0
0°-60°	3012.6	74.9
0°-90°	4021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1277	1269	1273	1271	1269	121
15°	1229	1225	1233	1237	1237	347
25°	1142	1140	1158	1162	1164	526
35°	1013	1021	1041	1055	1065	634
45°	851	865	895	936	964	656
55°	657	679	744	812	843	586
65°	432	473	578	659	697	426
75°	196	279	396	404	390	211
85°	42	69	71	69	65	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274.7	1274.7	1274.7	1274.7	1274.7
2.5°	1280.6	1272.7	1274.7	1274.7	1270.7
5°	1276.7	1268.8	1272.7	1270.7	1268.8
7.5°	1268.8	1262.8	1266.8	1266.8	1264.8
10°	1258.9	1252.9	1256.9	1258.9	1258.9
12.5°	1245.0	1241.0	1247.0	1247.0	1249.0
15°	1229.2	1225.2	1233.1	1237.1	1237.1
17.5°	1211.4	1209.4	1219.3	1221.2	1223.2
20°	1191.6	1189.6	1201.5	1201.5	1205.4
22.5°	1167.8	1165.8	1181.7	1181.7	1185.6
25°	1142.1	1140.1	1157.9	1161.9	1163.8
27.5°	1114.4	1112.4	1130.2	1136.1	1140.1
30°	1082.7	1082.7	1102.5	1110.4	1116.3
32.5°	1047.1	1053.0	1070.8	1082.7	1090.6
35°	1013.4	1021.3	1041.1	1055.0	1064.9
37.5°	975.8	983.7	1005.5	1023.3	1035.2
40°	936.2	946.1	971.9	991.6	1009.5
42.5°	896.6	906.5	934.2	963.9	987.7
45°	851.1	865.0	894.7	936.2	963.9
47.5°	805.6	819.4	857.1	908.5	936.2
50°	758.1	773.9	819.4	878.8	908.5
52.5°	708.6	726.4	783.8	847.2	876.8
55°	657.1	678.9	744.2	811.5	843.2
57.5°	603.7	627.4	704.6	775.9	809.5
60°	548.3	578.0	663.1	738.3	773.9
62.5°	490.9	526.5	621.5	698.7	736.3
65°	431.5	473.1	578.0	659.1	696.7
67.5°	370.1	425.6	534.4	619.5	657.1
70°	308.8	374.1	488.9	576.0	613.6
72.5°	251.4	326.6	443.4	524.5	572.4
75°	196.0	279.1	395.9	403.8	538.9
77.5°	146.5	231.6	326.6	291.0	489.0
80°	104.9	186.1	209.8	215.7	417.7
82.5°	69.3	140.5	136.6	140.5	338.6
85°	41.6	69.3	71.3	69.3	265.3
87.5°	19.8	25.7	19.8	17.8	155.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)