

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: P263690

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263690
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-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: 3850.0 lumens
Efficiency: N/A
Efficacy: 94.9 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

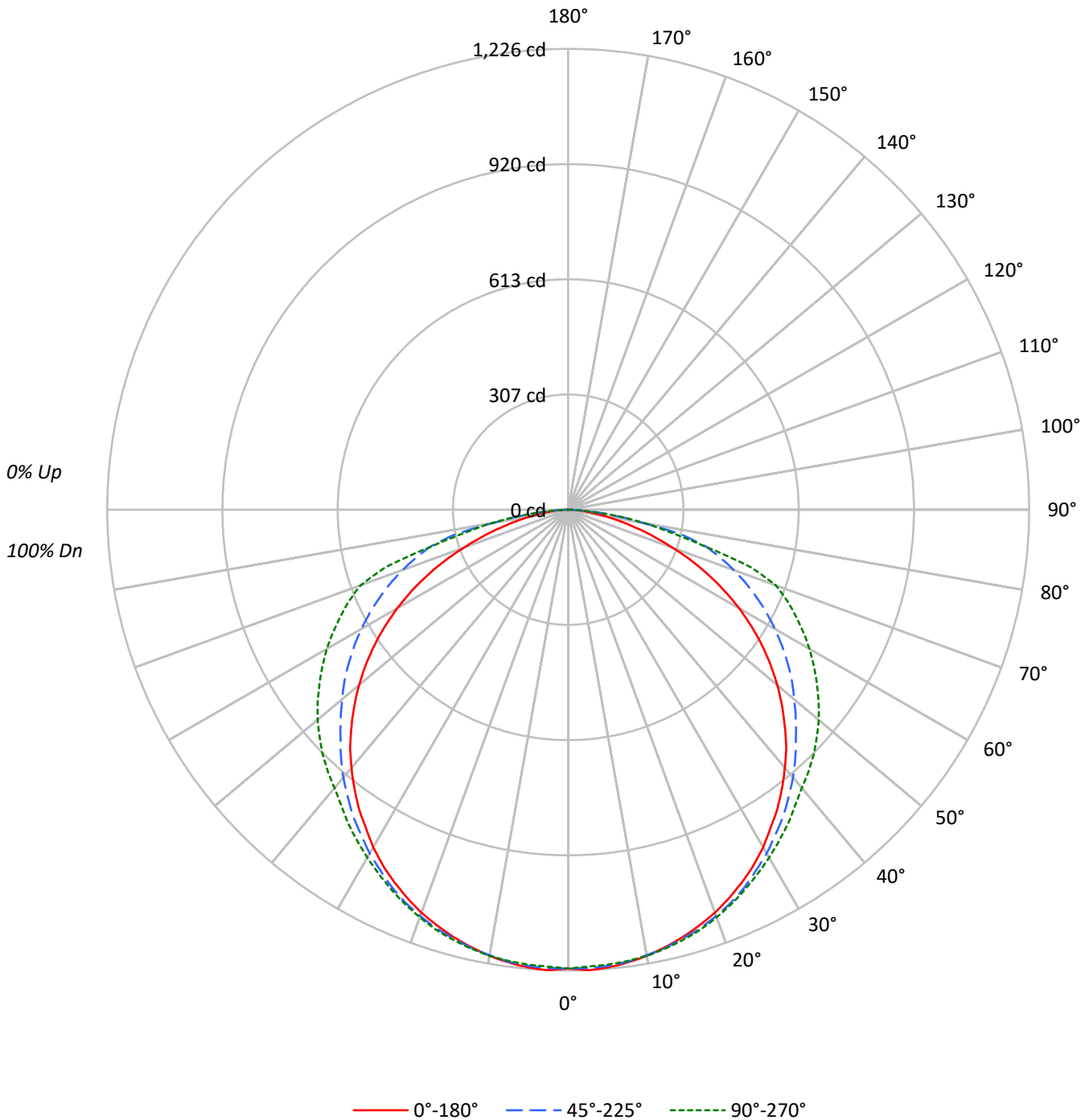
Input Watts (W): 40.548
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1642	1642	1642
5°	1651	1646	1641
10°	1647	1644	1647
15°	1639	1645	1650
20°	1634	1647	1653
25°	1623	1646	1654
30°	1611	1640	1661
35°	1594	1637	1675
40°	1574	1634	1698
45°	1551	1630	1756
50°	1519	1642	1821
55°	1476	1672	1894
60°	1413	1709	1994
65°	1315	1762	2124
70°	1163	1841	2311
75°	975	1970	1941
80°	778	1557	1616
85°	614	1053	965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	3.0
10°-20°	333.1	8.7
20°-30°	508.9	13.2
30°-40°	622.1	16.2
40°-50°	665.9	17.3
50°-60°	638.7	16.6
60°-70°	539.3	14.0
70°-80°	344.7	9.0
80°-90°	81.5	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°	957.8	24.9
0°-40°	1579.9	41.0
0°-60°	2884.5	74.9
0°-90°	3850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1222	1215	1219	1217	1215	116
15°	1177	1173	1181	1184	1184	332
25°	1094	1092	1109	1112	1114	504
35°	970	978	997	1010	1020	607
45°	815	828	857	896	923	629
55°	629	650	713	777	807	561
65°	413	453	553	631	667	407
75°	188	267	379	387	373	202
85°	40	66	68	66	62	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.5	1220.5	1220.5	1220.5	1220.5
2.5°	1226.2	1218.6	1220.5	1220.5	1216.7
5°	1222.4	1214.8	1218.6	1216.7	1214.8
7.5°	1214.8	1209.1	1212.9	1212.9	1211.0
10°	1205.3	1199.6	1203.4	1205.3	1205.3
12.5°	1192.1	1188.3	1193.9	1193.9	1195.8
15°	1176.9	1173.1	1180.7	1184.5	1184.5
17.5°	1159.8	1157.9	1167.4	1169.3	1171.2
20°	1140.9	1139.0	1150.4	1150.4	1154.2
22.5°	1118.1	1116.2	1131.4	1131.4	1135.2
25°	1093.5	1091.6	1108.7	1112.5	1114.4
27.5°	1067.0	1065.1	1082.1	1087.8	1091.6
30°	1036.7	1036.7	1055.6	1063.2	1068.9
32.5°	1002.5	1008.2	1025.3	1036.7	1044.2
35°	970.3	977.9	996.9	1010.1	1019.6
37.5°	934.3	941.9	962.7	979.8	991.2
40°	896.4	905.9	930.5	949.5	966.5
42.5°	858.5	868.0	894.5	922.9	945.7
45°	814.9	828.2	856.6	896.4	922.9
47.5°	771.3	784.6	820.6	869.9	896.4
50°	725.8	741.0	784.6	841.5	869.9
52.5°	678.5	695.5	750.5	811.1	839.6
55°	629.2	650.0	712.6	777.0	807.3
57.5°	578.0	600.8	674.7	742.9	775.1
60°	525.0	553.4	634.9	706.9	741.0
62.5°	470.0	504.1	595.1	669.0	705.0
65°	413.1	452.9	553.4	631.1	667.1
67.5°	354.4	407.5	511.7	593.2	629.2
70°	295.6	358.2	468.1	551.5	587.5
72.5°	240.7	312.7	424.5	502.2	509.8
75°	187.6	267.2	379.0	386.6	373.3
77.5°	140.2	221.7	312.7	278.6	276.7
80°	100.4	178.1	200.9	206.6	208.5
82.5°	66.3	134.6	130.8	134.6	132.7
85°	39.8	66.3	68.2	66.3	62.5
87.5°	19.0	24.6	19.0	17.1	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)