

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: P263808

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263808
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-LD5-45-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2824.0 lumens
Efficiency: N/A
Efficacy: 88.3 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

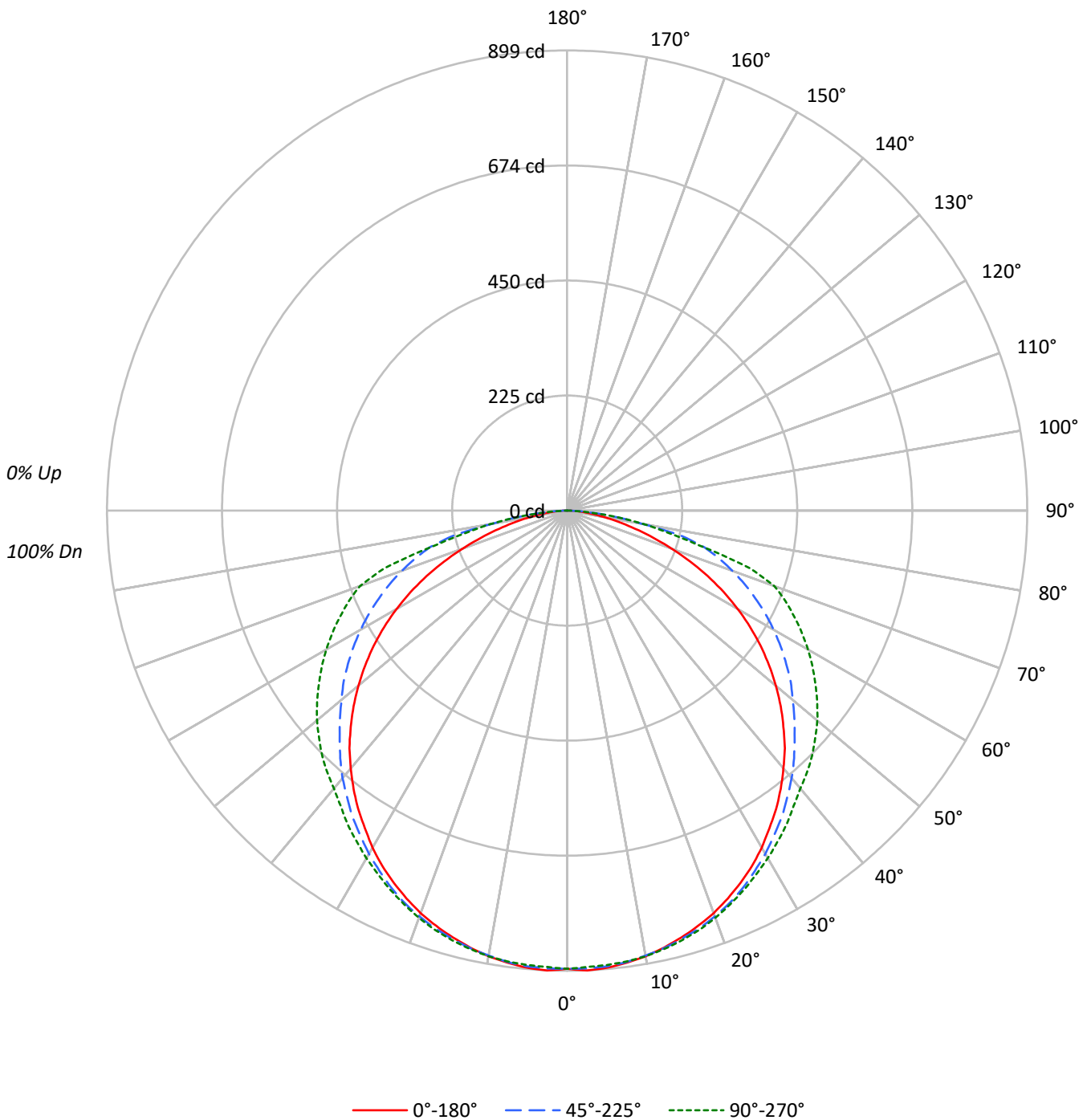
Input Watts (W): 31.992
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1204	1204	1204
5°	1211	1207	1204
10°	1208	1206	1208
15°	1203	1206	1210
20°	1198	1208	1212
25°	1191	1207	1213
30°	1181	1203	1218
35°	1169	1201	1228
40°	1155	1199	1245
45°	1137	1196	1288
50°	1114	1205	1336
55°	1083	1226	1389
60°	1036	1253	1463
65°	965	1292	1558
70°	853	1351	1695
75°	715	1445	1424
80°	571	1142	1185
85°	451	772	709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.0
10°-20°	244.4	8.7
20°-30°	373.3	13.2
30°-40°	456.3	16.2
40°-50°	488.4	17.3
50°-60°	468.5	16.6
60°-70°	395.6	14.0
70°-80°	252.8	9.0
80°-90°	59.8	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°	702.5	24.9
0°-40°	1158.9	41.0
0°-60°	2115.8	74.9
0°-90°	2824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	895	895	895	895	895	
5°	897	891	894	892	891	85
15°	863	860	866	869	869	244
25°	802	801	813	816	817	370
35°	712	717	731	741	748	445
45°	598	608	628	658	677	461
55°	462	477	523	570	592	412
65°	303	332	406	463	489	299
75°	138	196	278	284	274	148
85°	29	49	50	49	46	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	895.2	895.2	895.2	895.2	895.2
2.5°	899.4	893.8	895.2	895.2	892.5
5°	896.6	891.1	893.8	892.5	891.1
7.5°	891.1	886.9	889.7	889.7	888.3
10°	884.1	879.9	882.7	884.1	884.1
12.5°	874.4	871.6	875.8	875.8	877.2
15°	863.3	860.5	866.0	868.8	868.8
17.5°	850.7	849.4	856.3	857.7	859.1
20°	836.8	835.5	843.8	843.8	846.6
22.5°	820.2	818.8	829.9	829.9	832.7
25°	802.1	800.7	813.2	816.0	817.4
27.5°	782.6	781.2	793.8	797.9	800.7
30°	760.4	760.4	774.3	779.9	784.0
32.5°	735.4	739.5	752.1	760.4	766.0
35°	711.7	717.3	731.2	740.9	747.9
37.5°	685.3	690.9	706.2	718.7	727.0
40°	657.5	664.5	682.5	696.4	709.0
42.5°	629.7	636.7	656.1	677.0	693.7
45°	597.7	607.5	628.3	657.5	677.0
47.5°	565.8	575.5	601.9	638.1	657.5
50°	532.4	543.5	575.5	617.2	638.1
52.5°	497.7	510.2	550.5	595.0	615.8
55°	461.5	476.8	522.7	569.9	592.2
57.5°	424.0	440.7	494.9	544.9	568.6
60°	385.1	405.9	465.7	518.5	543.5
62.5°	344.7	369.8	436.5	490.7	517.1
65°	303.0	332.2	405.9	462.9	489.3
67.5°	260.0	298.9	375.3	435.1	461.5
70°	216.9	262.7	343.4	404.5	430.9
72.5°	176.5	229.4	311.4	368.4	373.9
75°	137.6	196.0	278.0	283.6	273.9
77.5°	102.9	162.6	229.4	204.3	203.0
80°	73.7	130.7	147.4	151.5	152.9
82.5°	48.7	98.7	95.9	98.7	97.3
85°	29.2	48.7	50.0	48.7	45.9
87.5°	13.9	18.1	13.9	12.5	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)