

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: P263663

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263663
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-LD5-40-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: 2826.0 lumens
Efficiency: N/A
Efficacy: 98.7 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

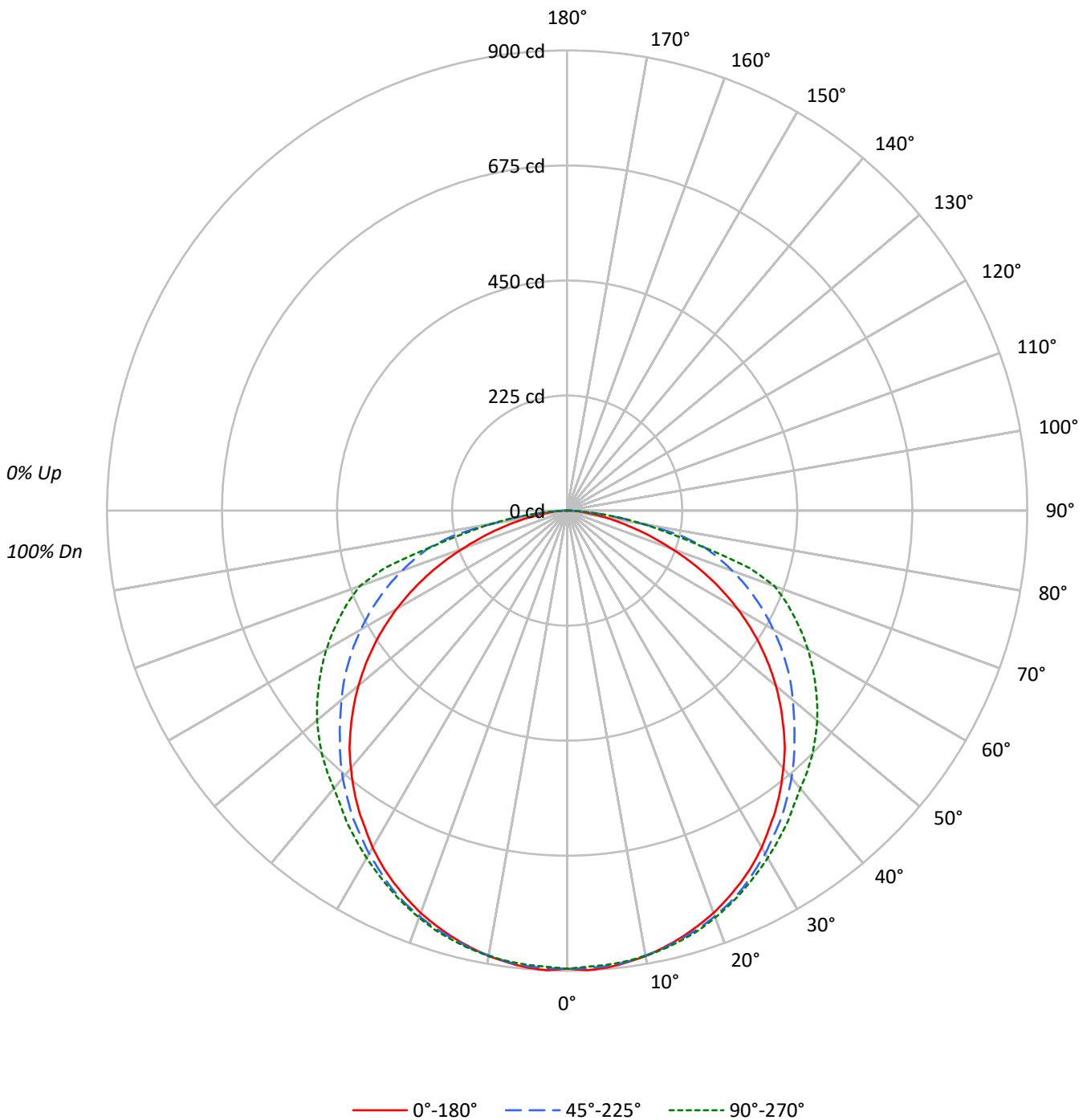
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1205	1205	1205
5°	1212	1208	1204
10°	1209	1207	1209
15°	1203	1207	1211
20°	1199	1209	1213
25°	1192	1208	1214
30°	1182	1204	1219
35°	1170	1202	1229
40°	1156	1200	1246
45°	1138	1196	1289
50°	1115	1205	1337
55°	1083	1227	1390
60°	1037	1254	1464
65°	966	1293	1559
70°	854	1352	1696
75°	716	1446	1424
80°	571	1143	1185
85°	451	773	709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	3.0
10°-20°	244.5	8.7
20°-30°	373.5	13.2
30°-40°	456.6	16.2
40°-50°	488.8	17.3
50°-60°	468.8	16.6
60°-70°	395.9	14.0
70°-80°	253.0	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°	703.0	24.9
0°-40°	1159.7	41.0
0°-60°	2117.3	74.9
0°-90°	2826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	897	892	894	893	892	85
15°	864	861	867	869	869	244
25°	803	801	814	817	818	370
35°	712	718	732	742	748	445
45°	598	608	629	658	678	461
55°	462	477	523	570	593	412
65°	303	332	406	463	490	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°	895.9	895.9	895.9	895.9	895.9
2.5°	900.0	894.5	895.9	895.9	893.1
5°	897.3	891.7	894.5	893.1	891.7
7.5°	891.7	887.5	890.3	890.3	888.9
10°	884.7	880.6	883.3	884.7	884.7
12.5°	875.0	872.2	876.4	876.4	877.8
15°	863.9	861.1	866.7	869.4	869.4
17.5°	851.4	850.0	856.9	858.3	859.7
20°	837.4	836.0	844.4	844.4	847.2
22.5°	820.7	819.4	830.5	830.5	833.3
25°	802.7	801.3	813.8	816.6	818.0
27.5°	783.2	781.8	794.3	798.5	801.3
30°	760.9	760.9	774.8	780.4	784.6
32.5°	735.9	740.1	752.6	760.9	766.5
35°	712.2	717.8	731.7	741.5	748.4
37.5°	685.8	691.4	706.7	719.2	727.5
40°	658.0	664.9	683.0	696.9	709.5
42.5°	630.2	637.1	656.6	677.5	694.2
45°	598.2	607.9	628.8	658.0	677.5
47.5°	566.2	575.9	602.3	638.5	658.0
50°	532.8	543.9	575.9	617.6	638.5
52.5°	498.0	510.5	550.9	595.4	616.3
55°	461.8	477.1	523.1	570.3	592.6
57.5°	424.3	441.0	495.2	545.3	569.0
60°	385.3	406.2	466.0	518.9	543.9
62.5°	345.0	370.0	436.8	491.1	517.5
65°	303.3	332.5	406.2	463.2	489.7
67.5°	260.1	299.1	375.6	435.4	461.8
70°	217.0	262.9	343.6	404.8	431.2
72.5°	176.7	229.5	311.6	368.6	374.2
75°	137.7	196.1	278.2	283.8	274.0
77.5°	102.9	162.8	229.5	204.5	203.1
80°	73.7	130.8	147.5	151.6	153.0
82.5°	48.7	98.8	96.0	98.8	97.4
85°	29.2	48.7	50.1	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)