

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: P276287

Luminaire Tested: **24CZ2-40-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3276.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

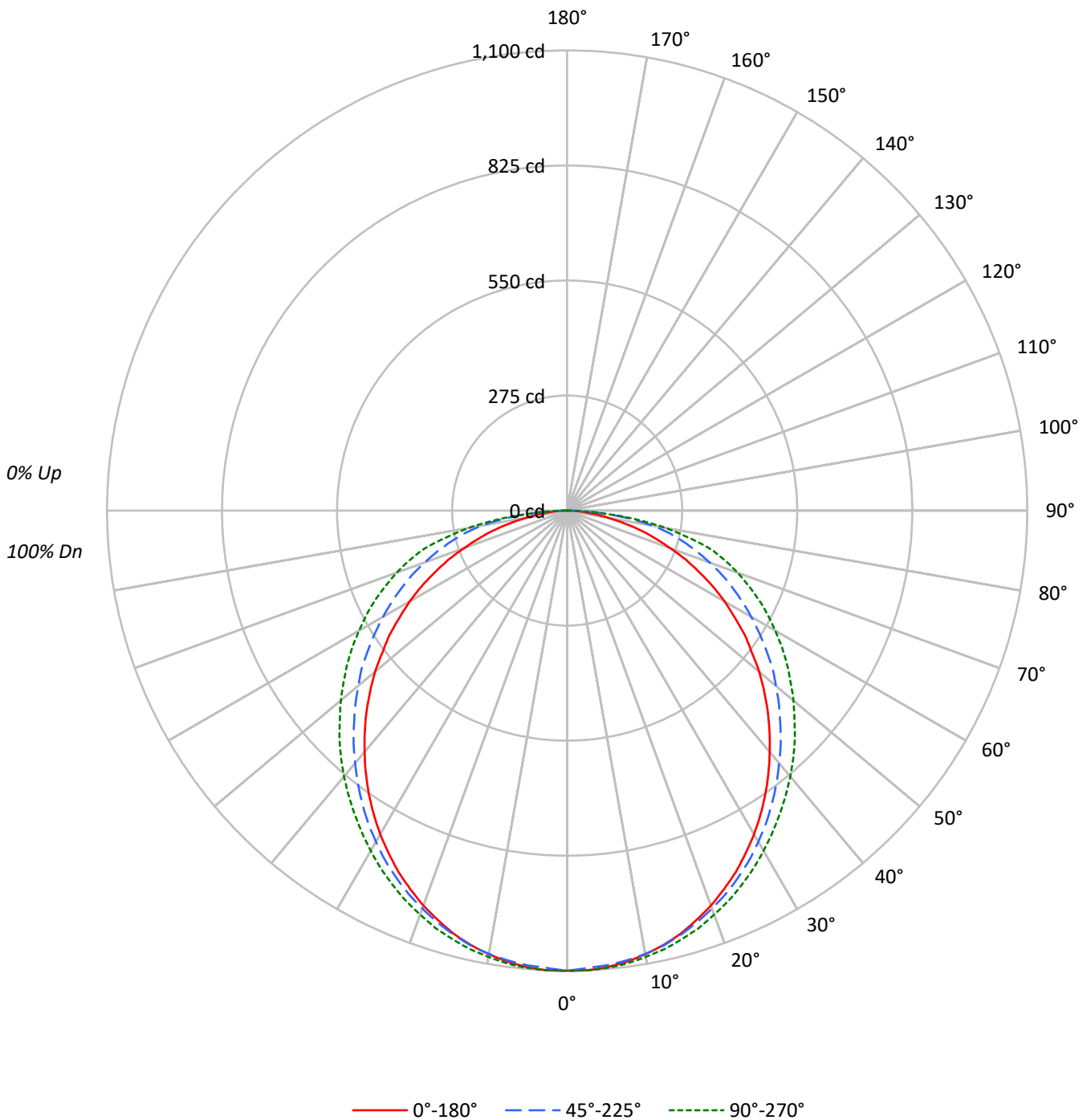
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276287

CATALOG NUMBER: 24CZ2-40-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P276287

CATALOG NUMBER: 24CZ2-40-UNV-L92765-W2A1-U-3500K

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	100	96	92	96	93	89	92	89	87	89	86	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	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1480	1480	1480
5°	1480	1474	1483
10°	1471	1470	1480
15°	1459	1462	1477
20°	1439	1450	1472
25°	1415	1436	1466
30°	1388	1420	1459
35°	1358	1403	1455
40°	1323	1385	1457
45°	1290	1371	1465
50°	1254	1364	1478
55°	1216	1362	1506
60°	1168	1368	1545
65°	1107	1389	1612
70°	1028	1424	1703
75°	938	1495	1847
80°	771	1609	1846
85°	591	1485	1587



TEST NUMBER: P276287

CATALOG NUMBER: 24CZ2-40-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	3.2
10°-20°	297.0	9.1
20°-30°	446.9	13.6
30°-40°	535.6	16.3
40°-50°	558.1	17.0
50°-60°	519.3	15.9
60°-70°	427.7	13.1
70°-80°	291.3	8.9
80°-90°	96.2	2.9
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°	847.9	25.9
0°-40°	1383.5	42.2
0°-60°	2460.9	75.1
0°-90°	3276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1096	1096	1091	1097	1098	104
15°	1047	1048	1050	1060	1060	295
25°	953	958	968	984	987	439
35°	827	836	854	877	886	517
45°	678	692	720	757	770	523
55°	518	536	581	626	642	462
65°	348	377	436	488	506	345
75°	180	221	288	339	355	190
85°	38	74	96	103	103	47
90°	0	0	0	0	0	



TEST NUMBER: P276287

CATALOG NUMBER: 24CZ2-40-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.9	1099.9	1099.9	1099.9	1099.9
2.5°	1099.9	1099.9	1094.4	1099.9	1099.9
5°	1095.5	1095.5	1091.2	1096.6	1097.7
7.5°	1087.9	1089.0	1084.6	1091.2	1092.3
10°	1076.9	1078.0	1075.9	1082.4	1083.5
12.5°	1063.8	1064.9	1064.9	1072.6	1073.7
15°	1047.4	1048.5	1049.6	1059.5	1060.5
17.5°	1026.7	1029.9	1032.1	1044.1	1046.3
20°	1004.8	1008.1	1012.4	1025.6	1027.7
22.5°	979.6	984.0	991.7	1005.9	1009.2
25°	953.4	957.8	967.6	984.0	987.3
27.5°	923.9	930.4	942.5	960.0	964.3
30°	893.3	899.8	914.0	932.6	939.2
32.5°	860.5	869.2	885.6	906.4	912.9
35°	826.6	836.4	853.9	876.9	885.6
37.5°	790.5	801.4	822.2	847.3	858.3
40°	753.3	766.4	788.3	817.8	829.8
42.5°	716.1	728.2	755.5	787.2	800.3
45°	677.9	692.1	720.5	756.6	769.7
47.5°	638.5	652.7	686.6	724.9	736.9
50°	599.2	613.4	651.6	692.1	706.3
52.5°	556.5	575.1	618.8	659.3	673.5
55°	518.2	535.7	580.6	626.5	641.8
57.5°	474.5	495.3	544.5	592.6	609.0
60°	434.1	455.9	508.4	557.6	574.0
62.5°	392.5	416.6	472.3	522.6	541.2
65°	347.7	377.2	436.2	487.6	506.2
67.5°	307.2	337.8	400.2	452.6	469.0
70°	261.3	298.5	361.9	414.4	433.0
72.5°	221.9	259.1	325.8	377.2	395.8
75°	180.4	220.9	287.5	338.9	355.3
77.5°	138.9	183.7	250.4	289.7	295.2
80°	99.5	146.5	207.7	230.7	238.3
82.5°	70.0	112.6	153.1	168.4	172.7
85°	38.3	74.3	96.2	102.8	102.8
87.5°	16.4	31.7	38.3	39.4	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)