

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: P263247

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-SQP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2811.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

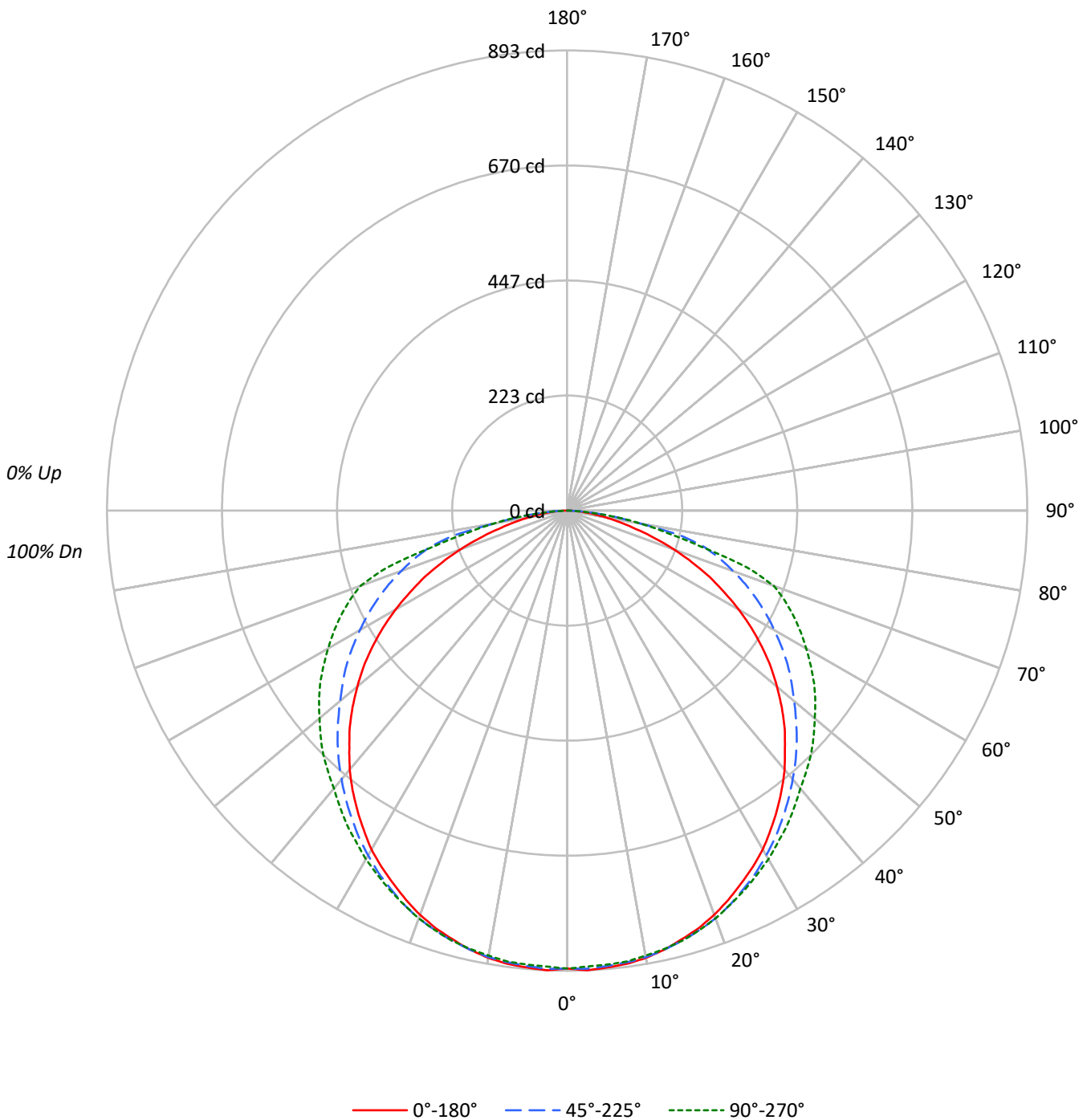
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263247

CATALOG NUMBER: 24CZ-LD5-40-SQP-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P263247

CATALOG NUMBER: 24CZ-LD5-40-SQP-UNV-L82765-W2A1-U-5700K

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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	1196	1196	1196
5°	1202	1198	1194
10°	1204	1202	1198
15°	1199	1203	1203
20°	1195	1206	1206
25°	1186	1203	1207
30°	1180	1200	1214
35°	1166	1197	1224
40°	1153	1196	1237
45°	1136	1199	1274
50°	1112	1204	1313
55°	1083	1226	1373
60°	1035	1250	1442
65°	971	1290	1544
70°	868	1348	1679
75°	717	1442	1389
80°	585	1113	1125
85°	471	739	695



TEST NUMBER: P263247

CATALOG NUMBER: 24CZ-LD5-40-SQP-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	3.0
10°-20°	243.5	8.7
20°-30°	372.2	13.2
30°-40°	455.2	16.2
40°-50°	487.1	17.3
50°-60°	466.4	16.6
60°-70°	394.6	14.0
70°-80°	250.1	8.9
80°-90°	57.5	2.0
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°	700.1	24.9
0°-40°	1155.3	41.1
0°-60°	2108.8	75.0
0°-90°	2811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	890	886	887	886	884	85
15°	861	860	864	864	864	243
25°	799	799	810	813	813	368
35°	710	714	729	739	745	444
45°	597	607	630	656	669	460
55°	462	476	523	566	585	412
65°	305	334	405	460	485	300
75°	138	195	277	276	267	150
85°	30	46	48	44	45	36
90°	0	0	0	0	0	



TEST NUMBER: P263247

CATALOG NUMBER: 24CZ-LD5-40-SQP-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.6	888.6	888.6	888.6	888.6
2.5°	893.0	888.6	890.1	888.6	885.7
5°	890.1	885.7	887.2	885.7	884.3
7.5°	887.2	882.8	884.3	882.8	882.8
10°	881.3	877.0	879.9	878.4	877.0
12.5°	872.6	869.7	872.6	871.2	871.2
15°	861.0	859.6	863.9	863.9	863.9
17.5°	849.4	848.0	853.8	853.8	853.8
20°	834.9	833.4	842.1	842.1	842.1
22.5°	817.5	816.0	827.6	827.6	827.6
25°	798.6	798.6	810.2	813.1	813.1
27.5°	779.7	779.7	792.8	797.1	797.1
30°	759.4	759.4	772.5	778.3	781.2
32.5°	734.7	737.6	752.1	759.4	762.3
35°	710.0	714.4	728.9	739.1	744.9
37.5°	683.9	688.2	705.7	717.3	724.5
40°	656.3	662.1	681.0	695.5	704.2
42.5°	625.8	634.5	656.3	675.2	686.8
45°	596.8	606.9	630.2	656.3	669.4
47.5°	564.8	576.4	602.6	636.0	649.0
50°	531.4	543.0	575.0	612.7	627.3
52.5°	498.0	511.1	548.8	589.5	606.9
55°	461.7	476.2	522.7	566.3	585.1
57.5°	424.0	441.4	493.7	540.1	560.5
60°	384.8	406.6	464.6	514.0	535.8
62.5°	344.1	370.3	435.6	487.9	511.1
65°	304.9	334.0	405.1	460.3	485.0
67.5°	262.8	299.1	374.6	434.1	457.4
70°	220.7	262.8	342.7	403.6	426.9
72.5°	178.6	229.4	310.7	365.9	365.9
75°	137.9	194.6	277.3	275.9	267.2
77.5°	104.5	162.6	228.0	194.6	196.0
80°	75.5	130.7	143.7	143.7	145.2
82.5°	50.8	100.2	92.9	91.5	94.4
85°	30.5	46.5	47.9	43.6	45.0
87.5°	14.5	16.0	13.1	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)