

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: P263331

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263331
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-LD5-40SE-SQP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2530.0 lumens
Efficiency: N/A
Efficacy: 83.7 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

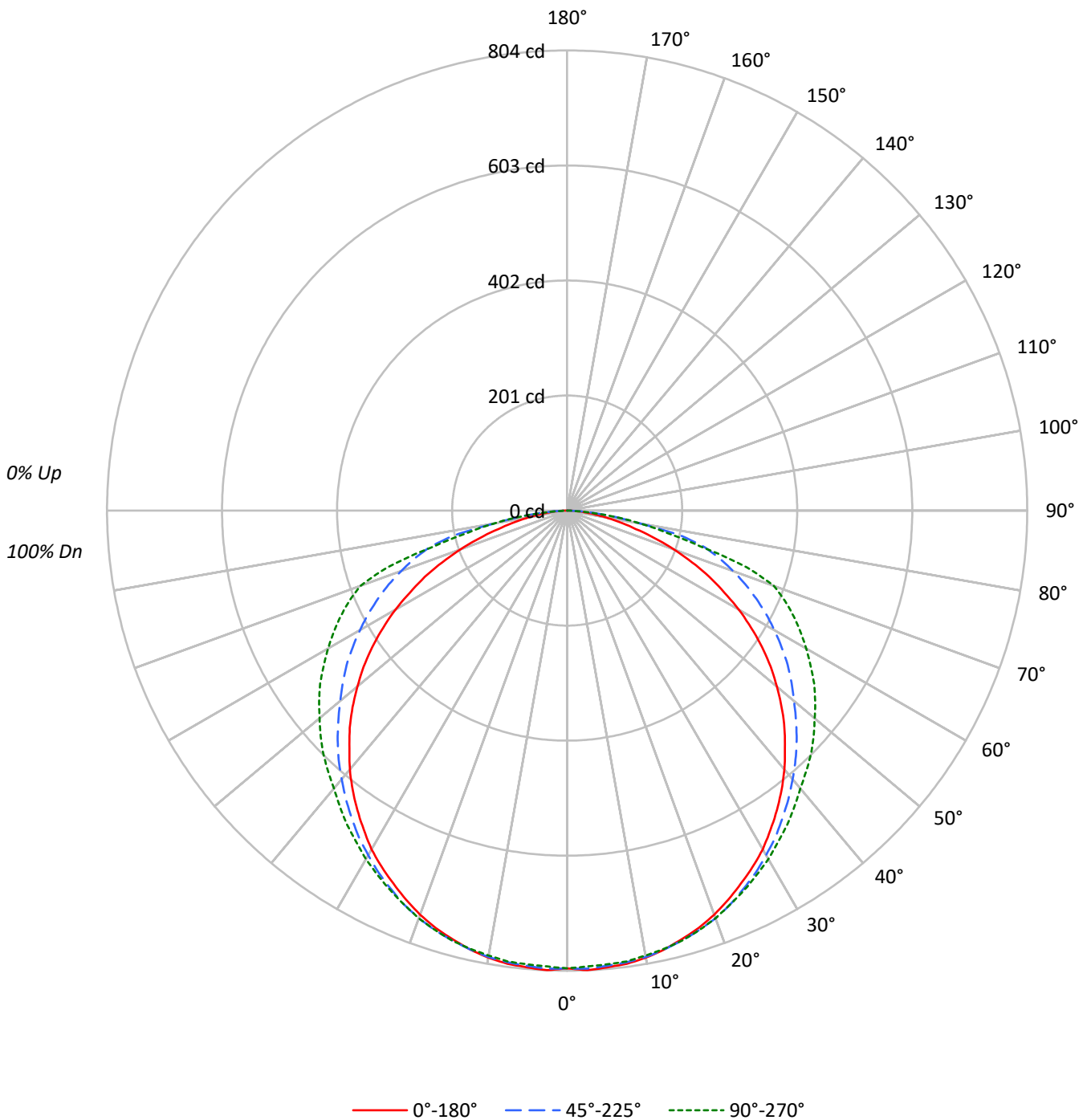
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263331

CATALOG NUMBER: 24CZ-LD5-40SE-SQP-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P263331

CATALOG NUMBER: 24CZ-LD5-40SE-SQP-UNV-L82765-W2A1-U-3000K

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°	1076	1076	1076
5°	1082	1078	1075
10°	1084	1082	1078
15°	1080	1083	1083
20°	1076	1085	1085
25°	1067	1083	1086
30°	1062	1080	1092
35°	1050	1078	1101
40°	1038	1077	1113
45°	1022	1079	1146
50°	1001	1083	1182
55°	975	1104	1236
60°	932	1125	1298
65°	874	1161	1390
70°	781	1213	1511
75°	645	1298	1250
80°	527	1003	1013
85°	423	665	625



TEST NUMBER: P263331

CATALOG NUMBER: 24CZ-LD5-40SE-SQP-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	3.0
10°-20°	219.2	8.7
20°-30°	335.0	13.2
30°-40°	409.7	16.2
40°-50°	438.4	17.3
50°-60°	419.8	16.6
60°-70°	355.1	14.0
70°-80°	225.1	8.9
80°-90°	51.8	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°	630.1	24.9
0°-40°	1039.8	41.1
0°-60°	1898.0	75.0
0°-90°	2530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	801	797	798	797	796	76
15°	775	774	778	778	778	219
25°	719	719	729	732	732	332
35°	639	643	656	665	670	400
45°	537	546	567	591	602	414
55°	416	429	470	510	527	371
65°	274	301	365	414	436	270
75°	124	175	250	248	240	135
85°	27	42	43	39	40	33
90°	0	0	0	0	0	



TEST NUMBER: P263331

CATALOG NUMBER: 24CZ-LD5-40SE-SQP-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	799.8	799.8	799.8	799.8	799.8
2.5°	803.7	799.8	801.1	799.8	797.2
5°	801.1	797.2	798.5	797.2	795.9
7.5°	798.5	794.6	795.9	794.6	794.6
10°	793.2	789.3	791.9	790.6	789.3
12.5°	785.4	782.8	785.4	784.1	784.1
15°	775.0	773.6	777.6	777.6	777.6
17.5°	764.5	763.2	768.4	768.4	768.4
20°	751.4	750.1	758.0	758.0	758.0
22.5°	735.7	734.4	744.9	744.9	744.9
25°	718.8	718.8	729.2	731.8	731.8
27.5°	701.8	701.8	713.5	717.5	717.5
30°	683.5	683.5	695.2	700.5	703.1
32.5°	661.3	663.9	676.9	683.5	686.1
35°	639.0	643.0	656.0	665.2	670.4
37.5°	615.5	619.4	635.1	645.6	652.1
40°	590.7	595.9	612.9	626.0	633.8
42.5°	563.2	571.1	590.7	607.7	618.1
45°	537.1	546.3	567.2	590.7	602.4
47.5°	508.4	518.8	542.3	572.4	584.2
50°	478.3	488.8	517.5	551.5	564.6
52.5°	448.2	460.0	494.0	530.6	546.3
55°	415.6	428.6	470.5	509.7	526.7
57.5°	381.6	397.3	444.3	486.1	504.4
60°	346.3	365.9	418.2	462.6	482.2
62.5°	309.7	333.2	392.0	439.1	460.0
65°	274.4	300.6	364.6	414.3	436.5
67.5°	236.5	269.2	337.2	390.7	411.7
70°	198.6	236.5	308.4	363.3	384.2
72.5°	160.7	206.5	279.7	329.3	329.3
75°	124.1	175.1	249.6	248.3	240.5
77.5°	94.1	146.4	205.2	175.1	176.4
80°	68.0	117.6	129.4	129.4	130.7
82.5°	45.7	90.2	83.6	82.3	84.9
85°	27.4	41.8	43.1	39.2	40.5
87.5°	13.1	14.4	11.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)