

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: P263412

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263412
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-LD5-60-SQP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3254.0 lumens
Efficiency: N/A
Efficacy: 74.1 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

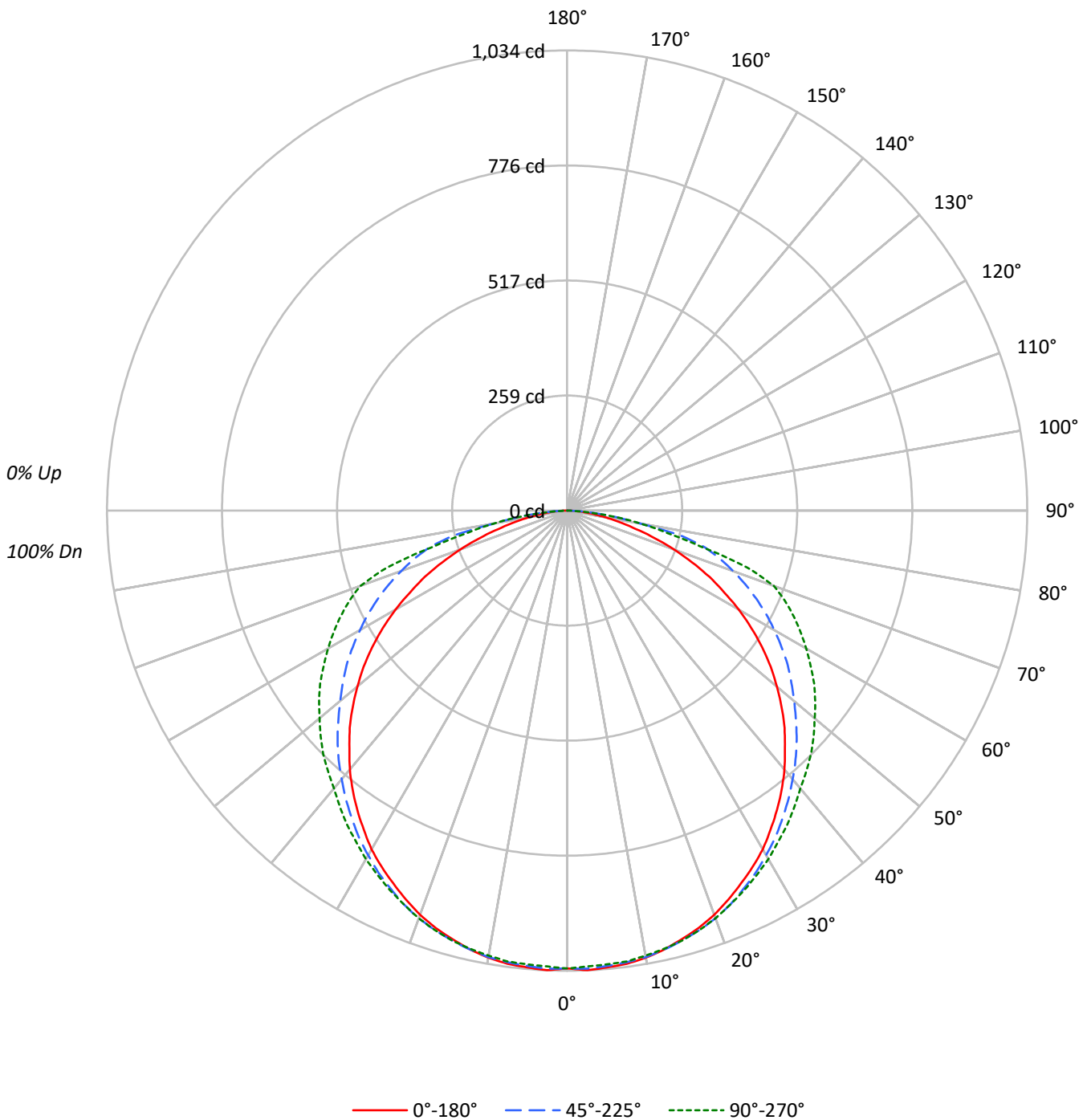
Input Watts (W): 43.896
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263412

CATALOG NUMBER: 24CZ-LD5-60-SQP-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P263412

CATALOG NUMBER: 24CZ-LD5-60-SQP-UNV-L92765-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°	1384	1384	1384
5°	1392	1387	1383
10°	1394	1392	1387
15°	1388	1393	1393
20°	1384	1396	1396
25°	1372	1392	1397
30°	1366	1389	1405
35°	1350	1386	1416
40°	1334	1385	1432
45°	1314	1388	1474
50°	1288	1393	1520
55°	1254	1419	1589
60°	1199	1447	1669
65°	1124	1493	1787
70°	1005	1561	1944
75°	830	1669	1608
80°	677	1289	1303
85°	545	857	804



TEST NUMBER: P263412

CATALOG NUMBER: 24CZ-LD5-60-SQP-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	3.0
10°-20°	281.9	8.7
20°-30°	430.9	13.2
30°-40°	527.0	16.2
40°-50°	563.8	17.3
50°-60°	539.9	16.6
60°-70°	456.7	14.0
70°-80°	289.5	8.9
80°-90°	66.6	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°	810.5	24.9
0°-40°	1337.4	41.1
0°-60°	2441.2	75.0
0°-90°	3254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1030	1025	1027	1025	1024	98
15°	997	995	1000	1000	1000	282
25°	924	924	938	941	941	427
35°	822	827	844	856	862	514
45°	691	703	730	760	775	532
55°	534	551	605	656	677	477
65°	353	387	469	533	561	348
75°	160	225	321	319	309	174
85°	35	54	56	50	52	42
90°	0	0	0	0	0	



TEST NUMBER: P263412

CATALOG NUMBER: 24CZ-LD5-60-SQP-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028.7	1028.7	1028.7	1028.7	1028.7
2.5°	1033.7	1028.7	1030.3	1028.7	1025.3
5°	1030.3	1025.3	1027.0	1025.3	1023.6
7.5°	1027.0	1021.9	1023.6	1021.9	1021.9
10°	1020.2	1015.2	1018.6	1016.9	1015.2
12.5°	1010.2	1006.8	1010.2	1008.5	1008.5
15°	996.7	995.0	1000.1	1000.1	1000.1
17.5°	983.3	981.6	988.3	988.3	988.3
20°	966.5	964.8	974.9	974.9	974.9
22.5°	946.3	944.6	958.1	958.1	958.1
25°	924.4	924.4	937.9	941.2	941.2
27.5°	902.6	902.6	917.7	922.8	922.8
30°	879.1	879.1	894.2	900.9	904.3
32.5°	850.5	853.8	870.7	879.1	882.4
35°	821.9	827.0	843.8	855.5	862.3
37.5°	791.7	796.7	816.9	830.3	838.7
40°	759.7	766.4	788.3	805.1	815.2
42.5°	724.4	734.5	759.7	781.6	795.0
45°	690.8	702.6	729.5	759.7	774.8
47.5°	653.8	667.3	697.5	736.2	751.3
50°	615.2	628.6	665.6	709.3	726.1
52.5°	576.5	591.6	635.3	682.4	702.6
55°	534.5	551.3	605.1	655.5	677.4
57.5°	490.8	511.0	571.5	625.3	648.8
60°	445.4	470.6	537.9	595.0	620.2
62.5°	398.3	428.6	504.2	564.7	591.6
65°	353.0	386.6	468.9	532.8	561.4
67.5°	304.2	346.2	433.6	502.6	529.5
70°	255.5	304.2	396.7	467.3	494.2
72.5°	206.7	265.6	359.7	423.6	423.6
75°	159.7	225.2	321.0	319.4	309.3
77.5°	121.0	188.2	263.9	225.2	226.9
80°	87.4	151.3	166.4	166.4	168.1
82.5°	58.8	116.0	107.6	105.9	109.3
85°	35.3	53.8	55.5	50.4	52.1
87.5°	16.8	18.5	15.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)