

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: P263472

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263472
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-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2526.0 lumens
Efficiency: N/A
Efficacy: 80.6 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

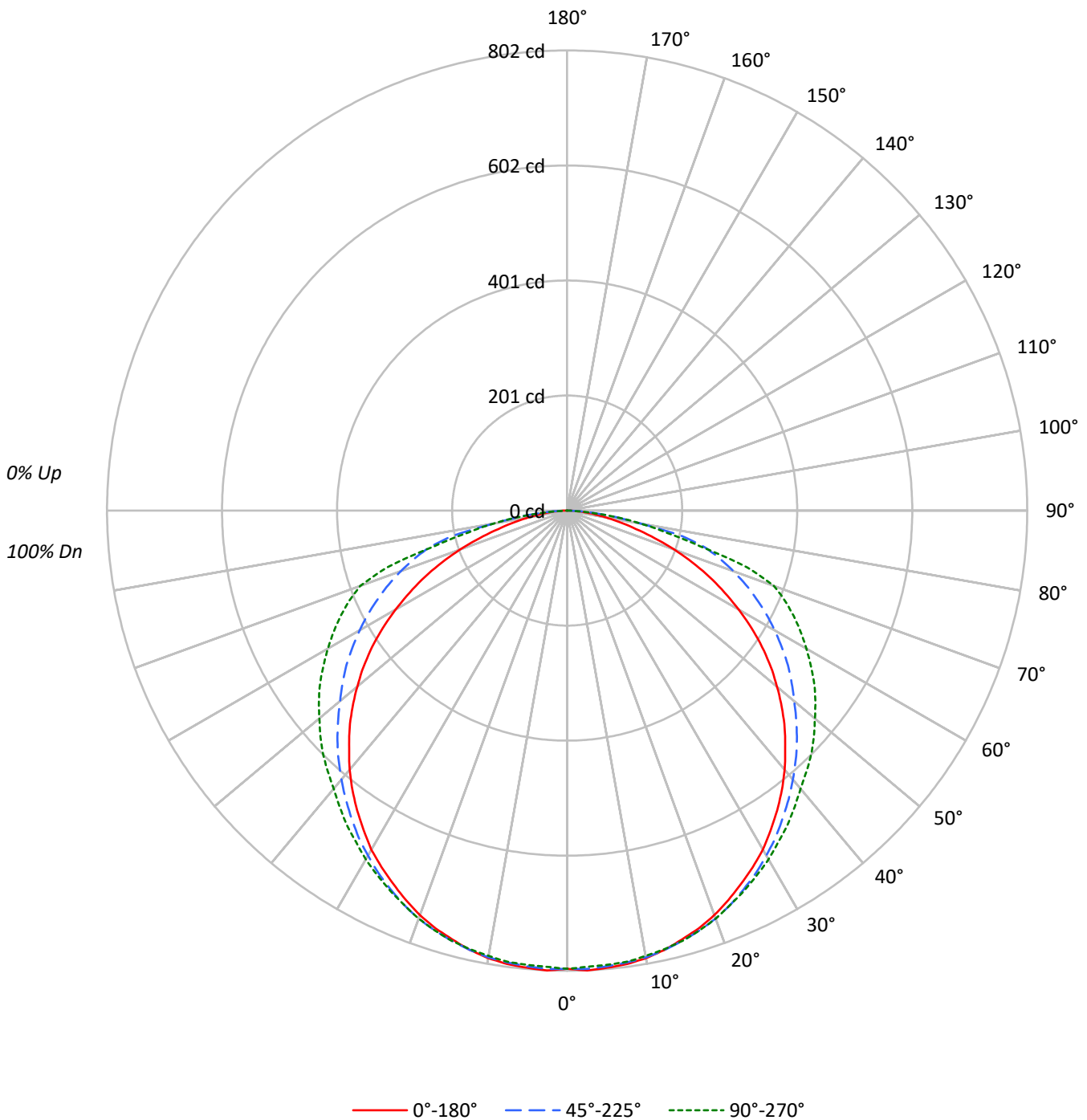
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1074	1074	1074
5°	1080	1077	1073
10°	1082	1080	1077
15°	1078	1081	1081
20°	1074	1084	1084
25°	1065	1081	1085
30°	1060	1078	1091
35°	1048	1076	1099
40°	1036	1075	1111
45°	1020	1078	1145
50°	1000	1082	1180
55°	973	1102	1233
60°	931	1123	1296
65°	872	1159	1387
70°	780	1211	1509
75°	645	1295	1248
80°	525	1001	1011
85°	423	665	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.0
10°-20°	218.8	8.7
20°-30°	334.5	13.2
30°-40°	409.1	16.2
40°-50°	437.7	17.3
50°-60°	419.1	16.6
60°-70°	354.5	14.0
70°-80°	224.7	8.9
80°-90°	51.7	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
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0°-30°	629.1	24.9
0°-40°	1038.2	41.1
0°-60°	1895.0	75.0
0°-90°	2526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	800	796	797	796	795	76
15°	774	772	776	776	776	219
25°	718	718	728	731	731	331
35°	638	642	655	664	669	399
45°	536	545	566	590	602	413
55°	415	428	470	509	526	370
65°	274	300	364	414	436	270
75°	124	175	249	248	240	135
85°	27	42	43	39	40	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.5	798.5	798.5	798.5	798.5
2.5°	802.4	798.5	799.8	798.5	795.9
5°	799.8	795.9	797.2	795.9	794.6
7.5°	797.2	793.3	794.6	793.3	793.3
10°	792.0	788.1	790.7	789.4	788.1
12.5°	784.2	781.6	784.2	782.9	782.9
15°	773.7	772.4	776.3	776.3	776.3
17.5°	763.3	762.0	767.2	767.2	767.2
20°	750.2	748.9	756.8	756.8	756.8
22.5°	734.6	733.3	743.7	743.7	743.7
25°	717.6	717.6	728.1	730.7	730.7
27.5°	700.7	700.7	712.4	716.3	716.3
30°	682.4	682.4	694.1	699.4	702.0
32.5°	660.2	662.8	675.9	682.4	685.0
35°	638.0	641.9	655.0	664.1	669.3
37.5°	614.5	618.5	634.1	644.6	651.1
40°	589.8	595.0	611.9	625.0	632.8
42.5°	562.4	570.2	589.8	606.7	617.2
45°	536.3	545.4	566.3	589.8	601.5
47.5°	507.6	518.0	541.5	571.5	583.2
50°	477.5	488.0	516.7	550.6	563.7
52.5°	447.5	459.3	493.2	529.7	545.4
55°	414.9	428.0	469.7	508.9	525.8
57.5°	381.0	396.6	443.6	485.4	503.6
60°	345.8	365.3	417.5	461.9	481.5
62.5°	309.2	332.7	391.4	438.4	459.3
65°	274.0	300.1	364.0	413.6	435.8
67.5°	236.2	268.8	336.6	390.1	411.0
70°	198.3	236.2	307.9	362.7	383.6
72.5°	160.5	206.2	279.2	328.8	328.8
75°	124.0	174.8	249.2	247.9	240.1
77.5°	93.9	146.1	204.8	174.8	176.1
80°	67.8	117.4	129.2	129.2	130.5
82.5°	45.7	90.0	83.5	82.2	84.8
85°	27.4	41.8	43.1	39.1	40.4
87.5°	13.0	14.4	11.7	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)