

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: P263250

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263250
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-LD5-45-SQP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2803.0 lumens
Efficiency: N/A
Efficacy: 89.7 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

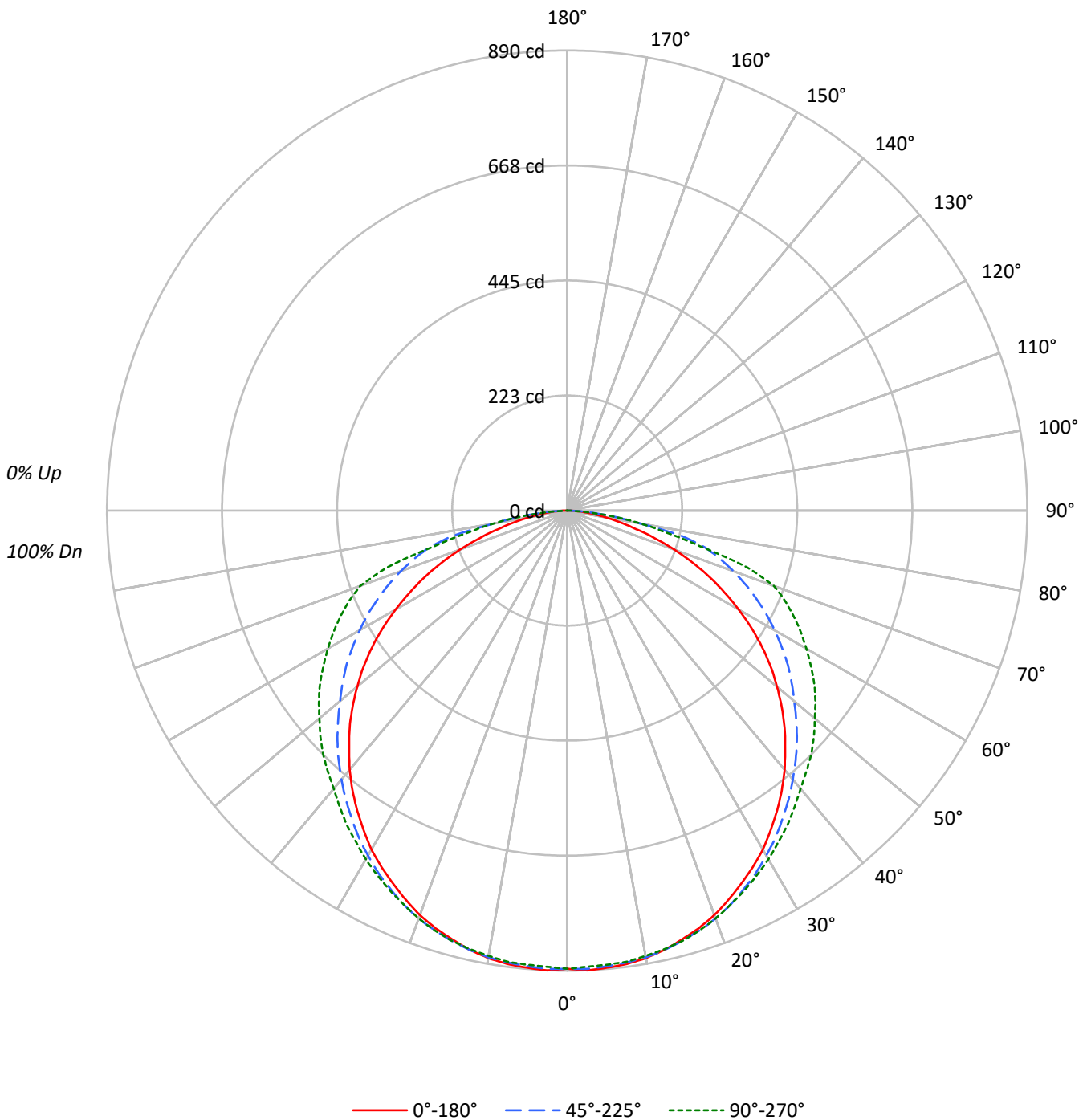
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263250

CATALOG NUMBER: 24CZ-LD5-45-SQP-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P263250

CATALOG NUMBER: 24CZ-LD5-45-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°	1192	1192	1192
5°	1199	1195	1191
10°	1201	1199	1195
15°	1196	1200	1200
20°	1192	1202	1202
25°	1182	1199	1204
30°	1176	1197	1210
35°	1163	1194	1220
40°	1149	1193	1233
45°	1132	1196	1270
50°	1109	1200	1309
55°	1080	1223	1369
60°	1033	1247	1438
65°	968	1286	1540
70°	866	1344	1675
75°	715	1437	1385
80°	583	1110	1122
85°	469	738	693



TEST NUMBER: P263250

CATALOG NUMBER: 24CZ-LD5-45-SQP-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.0
10°-20°	242.8	8.7
20°-30°	371.1	13.2
30°-40°	453.9	16.2
40°-50°	485.7	17.3
50°-60°	465.1	16.6
60°-70°	393.4	14.0
70°-80°	249.4	8.9
80°-90°	57.4	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°	698.1	24.9
0°-40°	1152.0	41.1
0°-60°	2102.8	75.0
0°-90°	2803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	888	883	885	883	882	84
15°	859	857	862	862	862	243
25°	796	796	808	811	811	367
35°	708	712	727	737	743	443
45°	595	605	628	654	668	458
55°	460	475	521	565	584	411
65°	304	333	404	459	484	300
75°	138	194	276	275	266	150
85°	30	46	48	43	45	36
90°	0	0	0	0	0	



TEST NUMBER: P263250

CATALOG NUMBER: 24CZ-LD5-45-SQP-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.1	886.1	886.1	886.1	886.1
2.5°	890.4	886.1	887.5	886.1	883.2
5°	887.5	883.2	884.6	883.2	881.7
7.5°	884.6	880.3	881.7	880.3	880.3
10°	878.8	874.5	877.4	875.9	874.5
12.5°	870.2	867.3	870.2	868.7	868.7
15°	858.6	857.1	861.5	861.5	861.5
17.5°	847.0	845.5	851.3	851.3	851.3
20°	832.5	831.1	839.7	839.7	839.7
22.5°	815.1	813.7	825.3	825.3	825.3
25°	796.3	796.3	807.9	810.8	810.8
27.5°	777.5	777.5	790.5	794.9	794.9
30°	757.2	757.2	770.3	776.0	778.9
32.5°	732.6	735.5	750.0	757.2	760.1
35°	708.0	712.3	726.8	737.0	742.7
37.5°	681.9	686.3	703.7	715.2	722.5
40°	654.4	660.2	679.0	693.5	702.2
42.5°	624.0	632.7	654.4	673.2	684.8
45°	595.1	605.2	628.4	654.4	667.5
47.5°	563.2	574.8	600.9	634.2	647.2
50°	529.9	541.5	573.3	611.0	625.5
52.5°	496.6	509.6	547.3	587.8	605.2
55°	460.4	474.9	521.2	564.7	583.5
57.5°	422.8	440.1	492.3	538.6	558.9
60°	383.7	405.4	463.3	512.5	534.3
62.5°	343.1	369.2	434.4	486.5	509.6
65°	304.0	333.0	403.9	459.0	483.6
67.5°	262.1	298.3	373.5	432.9	456.1
70°	220.1	262.1	341.7	402.5	425.7
72.5°	178.1	228.8	309.8	364.9	364.9
75°	137.5	194.0	276.5	275.1	266.4
77.5°	104.2	162.2	227.3	194.0	195.5
80°	75.3	130.3	143.3	143.3	144.8
82.5°	50.7	99.9	92.7	91.2	94.1
85°	30.4	46.3	47.8	43.4	44.9
87.5°	14.5	15.9	13.0	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)