

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: P263480

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263480
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-LD5-45SE-SQP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2816.0 lumens
Efficiency: N/A
Efficacy: 78.2 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

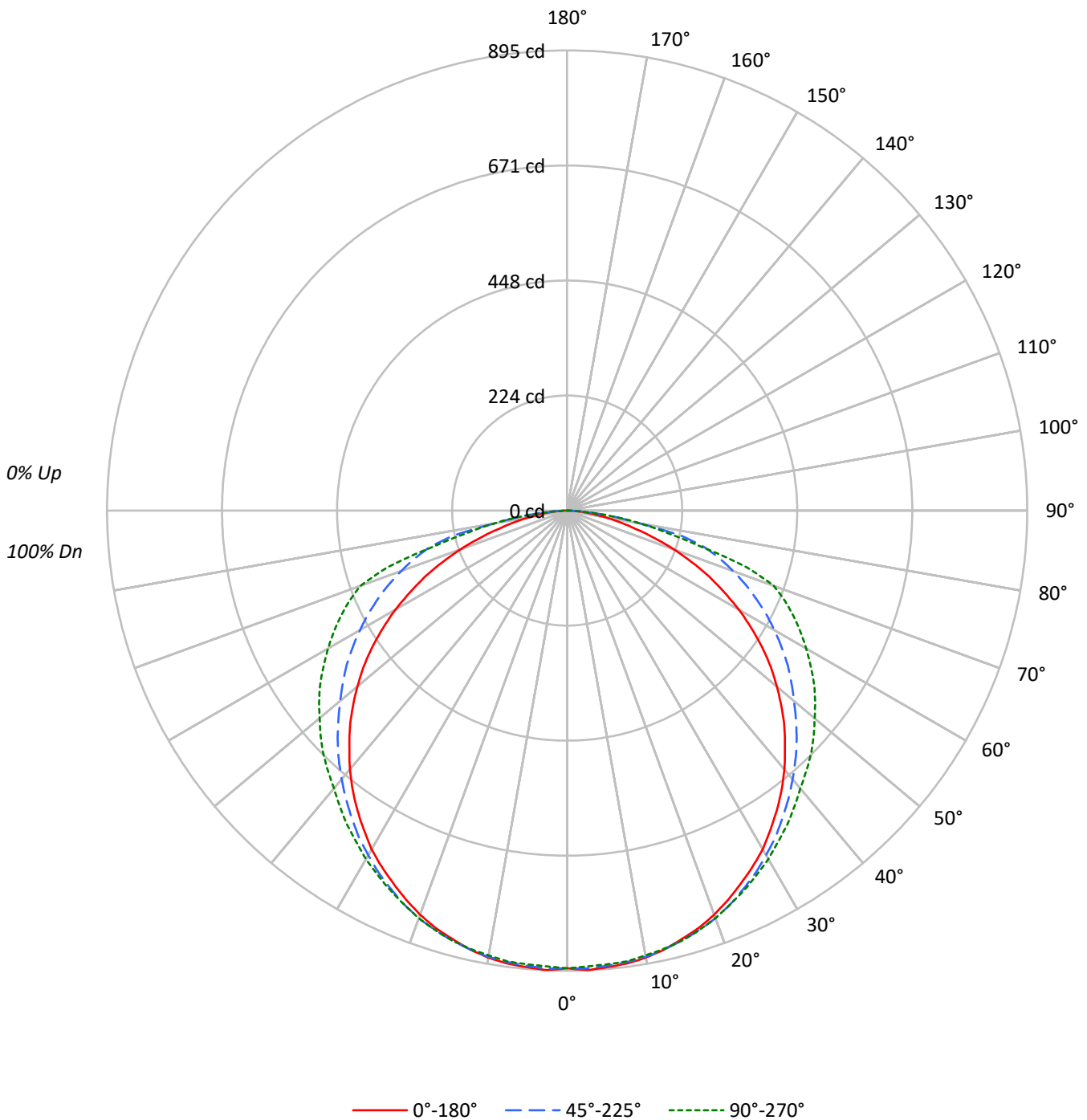
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263480

CATALOG NUMBER: 24CZ-LD5-45SE-SQP-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P263480

CATALOG NUMBER: 24CZ-LD5-45SE-SQP-UNV-L92765-W2A1-U-5500K

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°	1198	1198	1198
5°	1204	1200	1196
10°	1206	1204	1200
15°	1202	1206	1206
20°	1198	1208	1208
25°	1188	1205	1209
30°	1182	1202	1216
35°	1168	1199	1226
40°	1155	1198	1239
45°	1137	1201	1276
50°	1114	1206	1315
55°	1085	1228	1375
60°	1037	1253	1444
65°	973	1292	1547
70°	870	1351	1682
75°	718	1444	1391
80°	586	1116	1127
85°	471	741	696



TEST NUMBER: P263480

CATALOG NUMBER: 24CZ-LD5-45SE-SQP-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	3.0
10°-20°	244.0	8.7
20°-30°	372.9	13.2
30°-40°	456.0	16.2
40°-50°	487.9	17.3
50°-60°	467.2	16.6
60°-70°	395.2	14.0
70°-80°	250.5	8.9
80°-90°	57.6	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°	701.4	24.9
0°-40°	1157.4	41.1
0°-60°	2112.6	75.0
0°-90°	2816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	892	887	889	887	886	85
15°	863	861	866	866	866	244
25°	800	800	812	815	815	369
35°	711	716	730	740	746	445
45°	598	608	631	658	671	461
55°	462	477	524	567	586	413
65°	306	334	406	461	486	301
75°	138	195	278	276	268	150
85°	30	46	48	44	45	36
90°	0	0	0	0	0	



TEST NUMBER: P263480

CATALOG NUMBER: 24CZ-LD5-45SE-SQP-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	890.2	890.2	890.2	890.2	890.2
2.5°	894.6	890.2	891.6	890.2	887.3
5°	891.6	887.3	888.7	887.3	885.8
7.5°	888.7	884.4	885.8	884.4	884.4
10°	882.9	878.6	881.5	880.0	878.6
12.5°	874.2	871.3	874.2	872.7	872.7
15°	862.6	861.1	865.5	865.5	865.5
17.5°	850.9	849.5	855.3	855.3	855.3
20°	836.4	834.9	843.6	843.6	843.6
22.5°	818.9	817.5	829.1	829.1	829.1
25°	800.0	800.0	811.6	814.6	814.6
27.5°	781.1	781.1	794.2	798.6	798.6
30°	760.7	760.7	773.8	779.6	782.6
32.5°	736.0	738.9	753.5	760.7	763.6
35°	711.3	715.6	730.2	740.4	746.2
37.5°	685.1	689.5	706.9	718.6	725.8
40°	657.5	663.3	682.2	696.7	705.5
42.5°	626.9	635.6	657.5	676.4	688.0
45°	597.8	608.0	631.3	657.5	670.6
47.5°	565.8	577.5	603.6	637.1	650.2
50°	532.4	544.0	576.0	613.8	628.4
52.5°	498.9	512.0	549.8	590.6	608.0
55°	462.5	477.1	523.6	567.3	586.2
57.5°	424.7	442.2	494.6	541.1	561.5
60°	385.5	407.3	465.5	514.9	536.7
62.5°	344.7	370.9	436.4	488.7	512.0
65°	305.5	334.5	405.8	461.1	485.8
67.5°	263.3	299.6	375.3	434.9	458.2
70°	221.1	263.3	343.3	404.4	427.6
72.5°	178.9	229.8	311.3	366.5	366.5
75°	138.2	194.9	277.8	276.4	267.6
77.5°	104.7	162.9	228.4	194.9	196.4
80°	75.6	130.9	144.0	144.0	145.5
82.5°	50.9	100.4	93.1	91.6	94.5
85°	30.5	46.5	48.0	43.6	45.1
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)