

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: P263478

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263478
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2718.0 lumens
Efficiency: N/A
Efficacy: 76.3 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

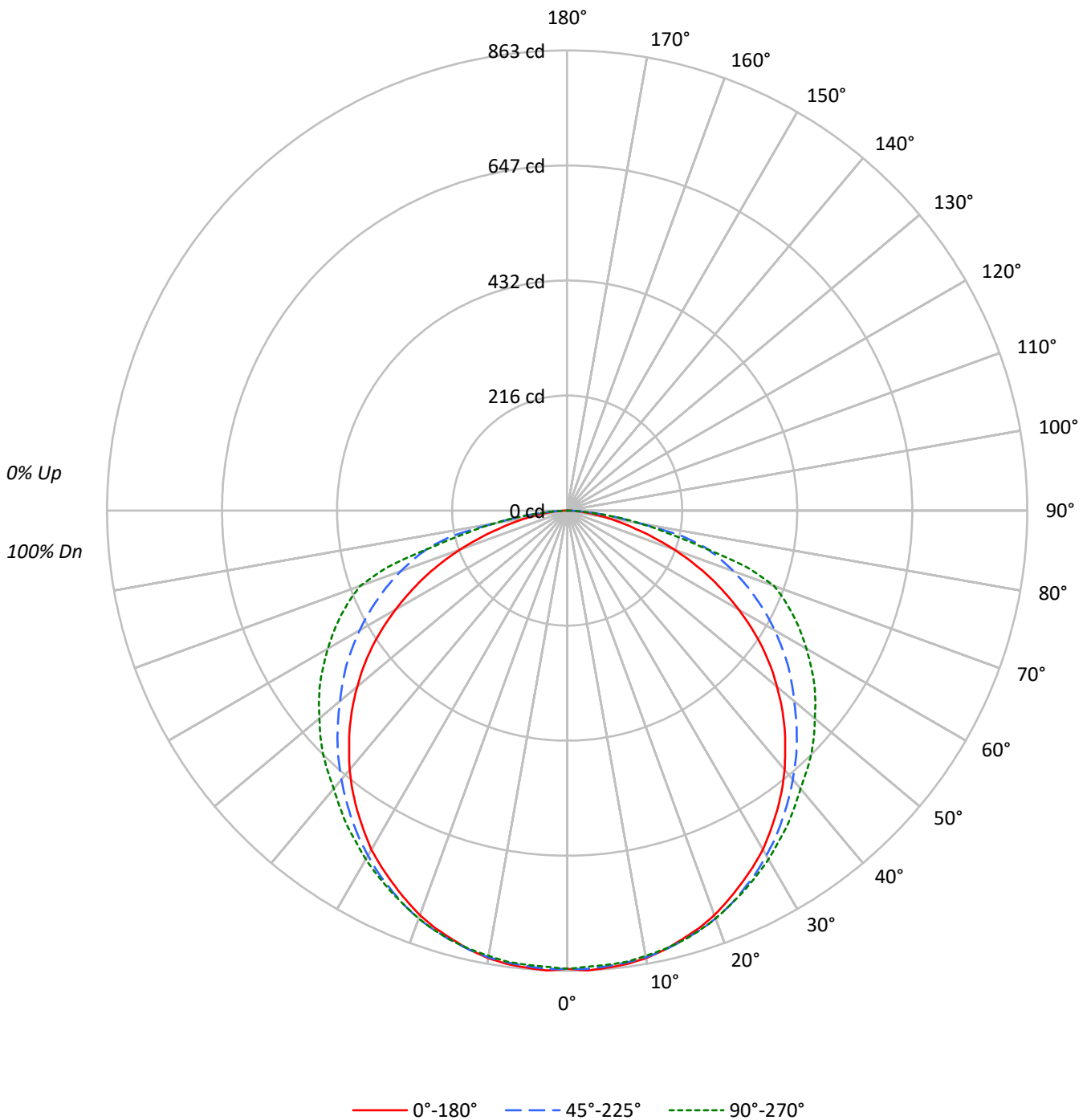
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263478

CATALOG NUMBER: 24CZ-LD5-45SE-SQP-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P263478

CATALOG NUMBER: 24CZ-LD5-45SE-SQP-UNV-L92765-W2A1-U-4500K

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°	1156	1156	1156
5°	1162	1159	1155
10°	1164	1162	1159
15°	1160	1164	1164
20°	1156	1166	1166
25°	1146	1163	1167
30°	1141	1160	1173
35°	1128	1158	1183
40°	1115	1156	1196
45°	1098	1159	1231
50°	1075	1164	1270
55°	1047	1186	1327
60°	1001	1209	1394
65°	939	1247	1493
70°	840	1303	1624
75°	693	1394	1343
80°	566	1077	1088
85°	455	715	672



TEST NUMBER: P263478

CATALOG NUMBER: 24CZ-LD5-45SE-SQP-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	3.0
10°-20°	235.5	8.7
20°-30°	359.9	13.2
30°-40°	440.2	16.2
40°-50°	471.0	17.3
50°-60°	451.0	16.6
60°-70°	381.5	14.0
70°-80°	241.8	8.9
80°-90°	55.6	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°	677.0	24.9
0°-40°	1117.1	41.1
0°-60°	2039.1	75.0
0°-90°	2718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	861	856	858	856	855	82
15°	832	831	835	835	835	235
25°	772	772	783	786	786	356
35°	686	691	705	715	720	430
45°	577	587	609	635	647	445
55°	446	460	505	548	566	398
65°	295	323	392	445	469	290
75°	133	188	268	267	258	145
85°	30	45	46	42	44	35
90°	0	0	0	0	0	



TEST NUMBER: P263478

CATALOG NUMBER: 24CZ-LD5-45SE-SQP-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	859.2	859.2	859.2	859.2	859.2
2.5°	863.4	859.2	860.6	859.2	856.4
5°	860.6	856.4	857.8	856.4	855.0
7.5°	857.8	853.6	855.0	853.6	853.6
10°	852.2	848.0	850.8	849.4	848.0
12.5°	843.8	841.0	843.8	842.4	842.4
15°	832.5	831.1	835.3	835.3	835.3
17.5°	821.3	819.9	825.5	825.5	825.5
20°	807.3	805.9	814.3	814.3	814.3
22.5°	790.4	789.0	800.2	800.2	800.2
25°	772.2	772.2	783.4	786.2	786.2
27.5°	753.9	753.9	766.6	770.8	770.8
30°	734.3	734.3	746.9	752.5	755.3
32.5°	710.4	713.2	727.2	734.3	737.1
35°	686.5	690.7	704.8	714.6	720.2
37.5°	661.3	665.5	682.3	693.5	700.6
40°	634.6	640.2	658.4	672.5	680.9
42.5°	605.1	613.5	634.6	652.8	664.1
45°	577.0	586.8	609.3	634.6	647.2
47.5°	546.1	557.4	582.6	614.9	627.6
50°	513.8	525.1	556.0	592.5	606.5
52.5°	481.6	494.2	530.7	570.0	586.8
55°	446.5	460.5	505.4	547.5	565.8
57.5°	410.0	426.8	477.3	522.3	541.9
60°	372.0	393.1	449.3	497.0	518.1
62.5°	332.7	358.0	421.2	471.7	494.2
65°	294.8	322.9	391.7	445.0	468.9
67.5°	254.1	289.2	362.2	419.8	442.2
70°	213.4	254.1	331.3	390.3	412.8
72.5°	172.7	221.8	300.4	353.8	353.8
75°	133.4	188.1	268.2	266.7	258.3
77.5°	101.1	157.2	220.4	188.1	189.5
80°	73.0	126.4	139.0	139.0	140.4
82.5°	49.1	96.9	89.9	88.4	91.3
85°	29.5	44.9	46.3	42.1	43.5
87.5°	14.0	15.4	12.6	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)