

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: P263903

Luminaire Tested: **24CZ-LD5-50SE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2724.0 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

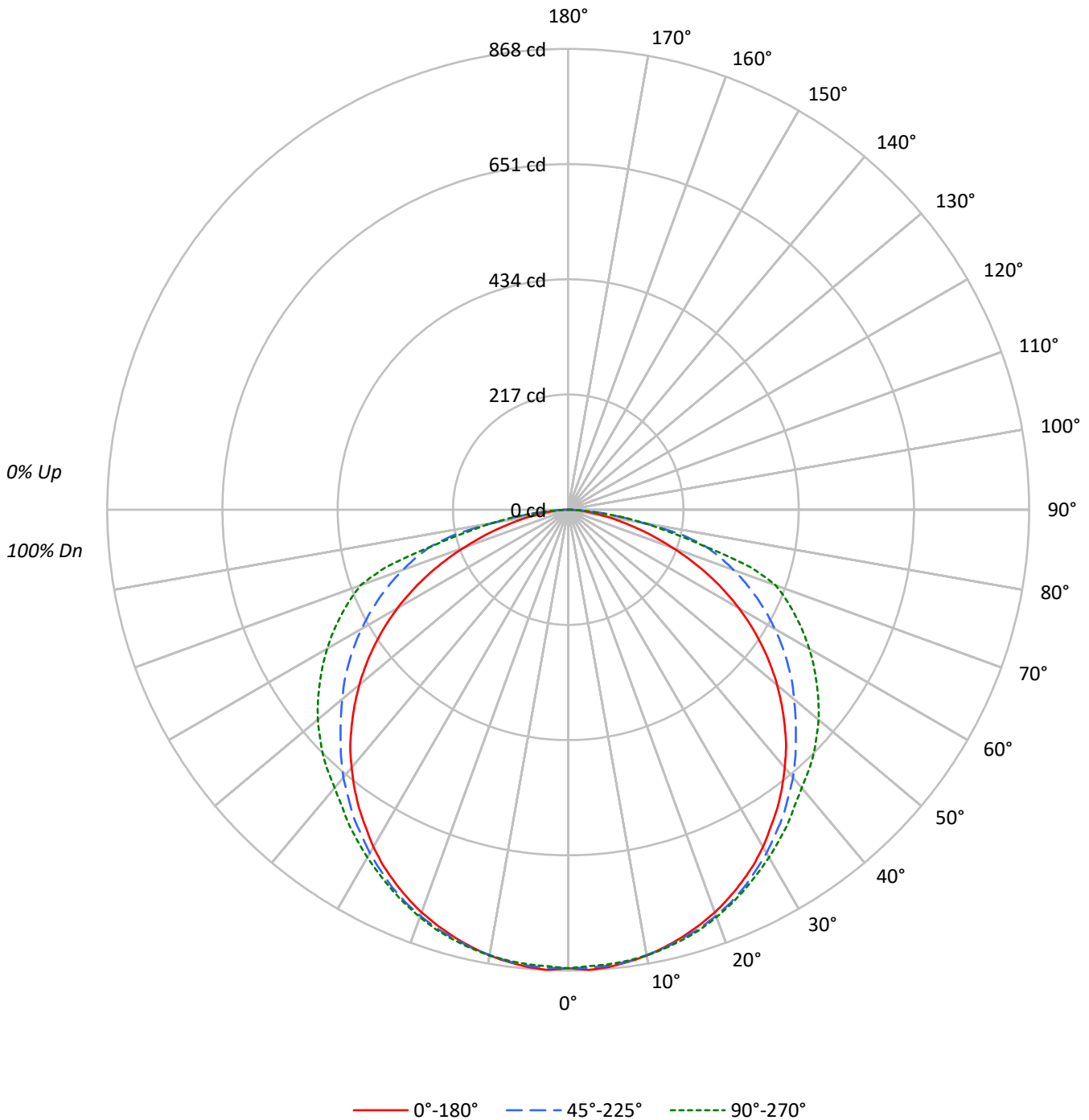
Input Watts (W): 39.618
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1162	1162	1162
5°	1168	1165	1161
10°	1165	1163	1165
15°	1160	1164	1167
20°	1156	1165	1169
25°	1149	1165	1170
30°	1140	1160	1175
35°	1128	1158	1185
40°	1114	1156	1201
45°	1097	1153	1243
50°	1075	1162	1288
55°	1044	1183	1340
60°	999	1209	1411
65°	931	1246	1503
70°	823	1303	1635
75°	690	1394	1373
80°	551	1101	1143
85°	435	746	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	3.0
10°-20°	235.7	8.7
20°-30°	360.0	13.2
30°-40°	440.2	16.2
40°-50°	471.1	17.3
50°-60°	451.9	16.6
60°-70°	381.6	14.0
70°-80°	243.9	9.0
80°-90°	57.7	2.1
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°	677.7	24.9
0°-40°	1117.8	41.0
0°-60°	2040.9	74.9
0°-90°	2724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	865	860	862	861	860	82
15°	833	830	835	838	838	235
25°	774	772	784	787	788	357
35°	686	692	705	715	721	429
45°	577	586	606	634	653	445
55°	445	460	504	550	571	397
65°	292	320	392	446	472	288
75°	133	189	268	274	264	143
85°	28	47	48	47	44	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.5	863.5	863.5	863.5	863.5
2.5°	867.6	862.2	863.5	863.5	860.8
5°	864.9	859.5	862.2	860.8	859.5
7.5°	859.5	855.5	858.2	858.2	856.8
10°	852.8	848.8	851.5	852.8	852.8
12.5°	843.4	840.7	844.8	844.8	846.1
15°	832.7	830.0	835.4	838.1	838.1
17.5°	820.6	819.3	826.0	827.3	828.7
20°	807.2	805.9	813.9	813.9	816.6
22.5°	791.1	789.8	800.5	800.5	803.2
25°	773.7	772.4	784.4	787.1	788.4
27.5°	754.9	753.6	765.6	769.7	772.4
30°	733.5	733.5	746.9	752.2	756.3
32.5°	709.3	713.4	725.4	733.5	738.8
35°	686.5	691.9	705.3	714.7	721.4
37.5°	661.1	666.4	681.2	693.2	701.3
40°	634.2	640.9	658.4	671.8	683.9
42.5°	607.4	614.1	632.9	653.0	669.1
45°	576.6	586.0	606.1	634.2	653.0
47.5°	545.7	555.1	580.6	615.5	634.2
50°	513.6	524.3	555.1	595.4	615.5
52.5°	480.0	492.1	531.0	573.9	594.0
55°	445.2	459.9	504.2	549.8	571.2
57.5°	409.0	425.1	477.4	525.6	548.4
60°	371.4	391.5	449.2	500.2	524.3
62.5°	332.5	356.7	421.0	473.3	498.8
65°	292.3	320.5	391.5	446.5	472.0
67.5°	250.7	288.3	362.0	419.7	445.2
70°	209.2	253.4	331.2	390.2	415.7
72.5°	170.3	221.2	300.4	355.3	360.7
75°	132.7	189.1	268.2	273.5	264.2
77.5°	99.2	156.9	221.2	197.1	195.8
80°	71.1	126.0	142.1	146.2	147.5
82.5°	46.9	95.2	92.5	95.2	93.9
85°	28.2	46.9	48.3	46.9	44.2
87.5°	13.4	17.4	13.4	12.1	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)