

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: P263346

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263346
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-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3128.0 lumens
Efficiency: N/A
Efficacy: 86.9 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

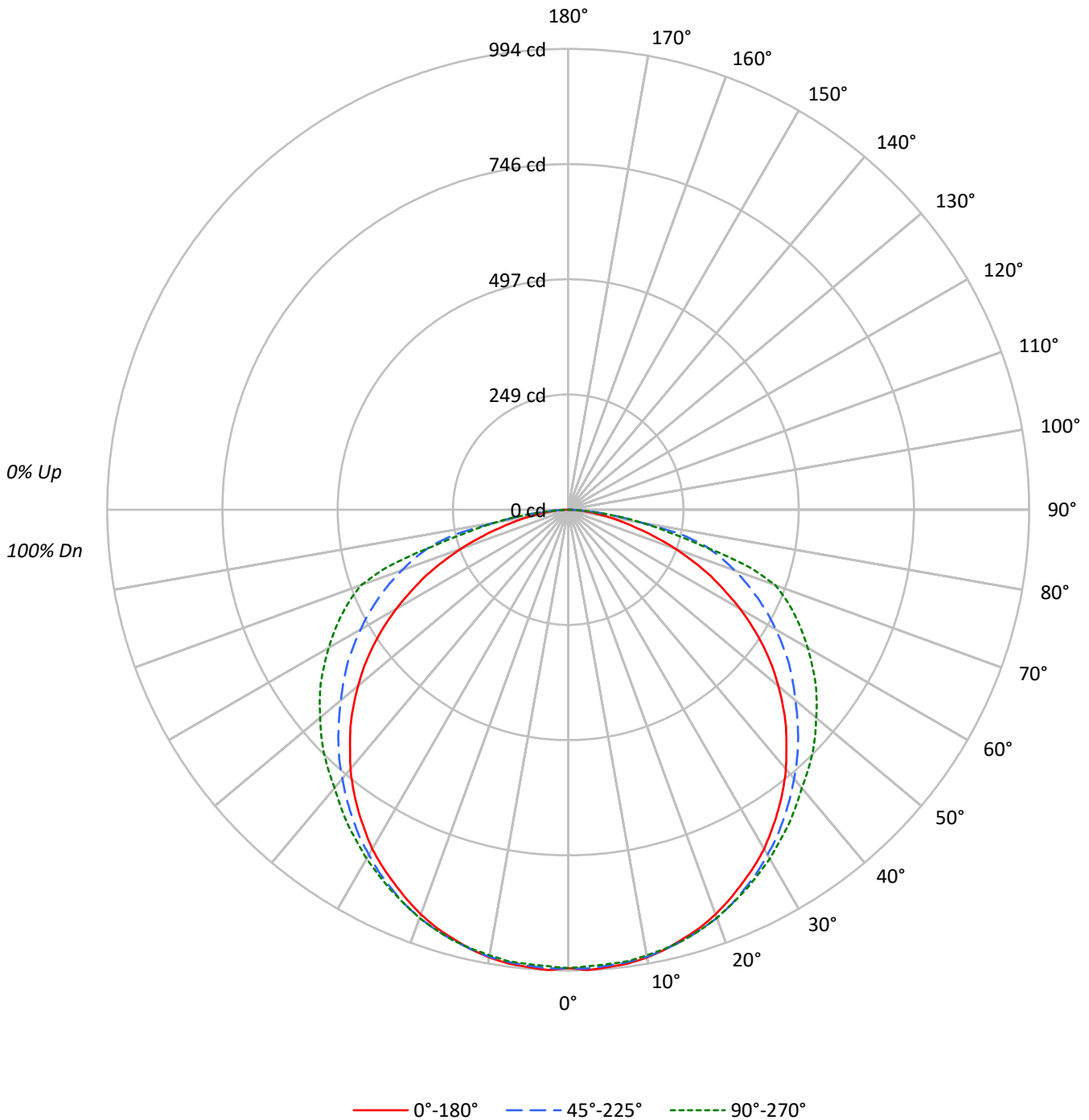
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1330	1330	1330
5°	1338	1333	1329
10°	1340	1338	1333
15°	1335	1339	1339
20°	1330	1342	1342
25°	1319	1339	1343
30°	1313	1336	1351
35°	1298	1332	1362
40°	1283	1331	1376
45°	1264	1334	1417
50°	1238	1339	1461
55°	1205	1365	1527
60°	1152	1391	1604
65°	1080	1435	1718
70°	966	1500	1869
75°	798	1604	1546
80°	651	1240	1252
85°	523	823	773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.0
10°-20°	271.0	8.7
20°-30°	414.2	13.2
30°-40°	506.5	16.2
40°-50°	542.0	17.3
50°-60°	519.0	16.6
60°-70°	439.0	14.0
70°-80°	278.3	8.9
80°-90°	64.0	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°	779.1	24.9
0°-40°	1285.6	41.1
0°-60°	2346.6	75.0
0°-90°	3128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	990	986	987	986	984	94
15°	958	956	961	961	961	271
25°	889	889	902	905	905	410
35°	790	795	811	822	829	494
45°	664	675	701	730	745	512
55°	514	530	582	630	651	458
65°	339	372	451	512	540	334
75°	154	216	309	307	297	167
85°	34	52	53	48	50	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.8	988.8	988.8	988.8	988.8
2.5°	993.7	988.8	990.4	988.8	985.6
5°	990.4	985.6	987.2	985.6	984.0
7.5°	987.2	982.4	984.0	982.4	982.4
10°	980.7	975.9	979.1	977.5	975.9
12.5°	971.0	967.8	971.0	969.4	969.4
15°	958.1	956.5	961.4	961.4	961.4
17.5°	945.2	943.6	950.0	950.0	950.0
20°	929.0	927.4	937.1	937.1	937.1
22.5°	909.6	908.0	921.0	921.0	921.0
25°	888.6	888.6	901.6	904.8	904.8
27.5°	867.6	867.6	882.2	887.0	887.0
30°	845.0	845.0	859.6	866.0	869.3
32.5°	817.6	820.8	836.9	845.0	848.3
35°	790.1	794.9	811.1	822.4	828.9
37.5°	761.0	765.9	785.2	798.2	806.2
40°	730.3	736.8	757.8	773.9	783.6
42.5°	696.4	706.1	730.3	751.3	764.2
45°	664.1	675.4	701.2	730.3	744.8
47.5°	628.5	641.4	670.5	707.7	722.2
50°	591.4	604.3	639.8	681.8	698.0
52.5°	554.2	568.7	610.7	656.0	675.4
55°	513.8	530.0	581.7	630.1	651.1
57.5°	471.8	491.2	549.3	601.0	623.7
60°	428.2	452.4	517.0	572.0	596.2
62.5°	382.9	412.0	484.7	542.9	568.7
65°	339.3	371.6	450.8	512.2	539.6
67.5°	292.4	332.8	416.9	483.1	509.0
70°	245.6	292.4	381.3	449.2	475.0
72.5°	198.7	255.3	345.8	407.2	407.2
75°	153.5	216.5	308.6	307.0	297.3
77.5°	116.3	181.0	253.7	216.5	218.1
80°	84.0	145.4	160.0	160.0	161.6
82.5°	56.6	111.5	103.4	101.8	105.0
85°	33.9	51.7	53.3	48.5	50.1
87.5°	16.2	17.8	14.5	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)