

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: P263403

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263403
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-LD5-55-SQP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2994.0 lumens
Efficiency: N/A
Efficacy: 75.4 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

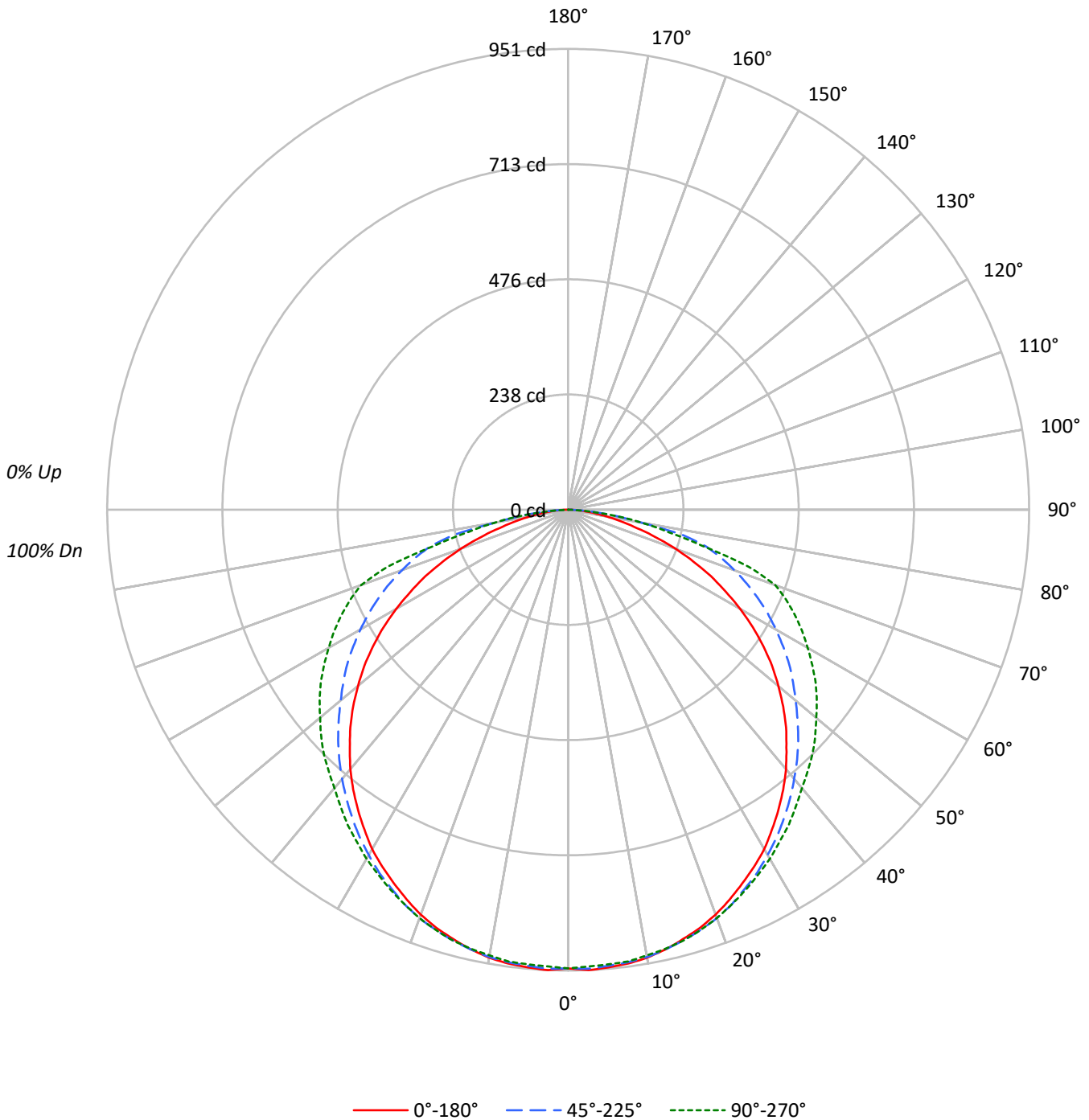
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1274	1274	1274
5°	1280	1276	1272
10°	1282	1280	1276
15°	1277	1282	1282
20°	1273	1284	1284
25°	1263	1281	1286
30°	1257	1278	1293
35°	1242	1275	1303
40°	1228	1274	1317
45°	1209	1277	1357
50°	1185	1282	1398
55°	1154	1306	1462
60°	1103	1332	1536
65°	1034	1374	1644
70°	925	1436	1789
75°	764	1536	1480
80°	623	1186	1199
85°	502	787	739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.0
10°-20°	259.4	8.7
20°-30°	396.4	13.2
30°-40°	484.8	16.2
40°-50°	518.8	17.3
50°-60°	496.8	16.6
60°-70°	420.2	14.0
70°-80°	266.4	8.9
80°-90°	61.3	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°	745.7	24.9
0°-40°	1230.5	41.1
0°-60°	2246.1	75.0
0°-90°	2994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	948	943	945	943	942	90
15°	917	916	920	920	920	259
25°	851	851	863	866	866	392
35°	756	761	776	787	793	473
45°	636	646	671	699	713	490
55°	492	507	557	603	623	439
65°	325	356	432	490	516	320
75°	147	207	295	294	285	160
85°	32	50	51	46	48	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.5	946.5	946.5	946.5	946.5
2.5°	951.1	946.5	948.0	946.5	943.4
5°	948.0	943.4	944.9	943.4	941.8
7.5°	944.9	940.3	941.8	940.3	940.3
10°	938.7	934.1	937.2	935.6	934.1
12.5°	929.4	926.4	929.4	927.9	927.9
15°	917.1	915.5	920.2	920.2	920.2
17.5°	904.7	903.2	909.3	909.3	909.3
20°	889.2	887.7	897.0	897.0	897.0
22.5°	870.7	869.1	881.5	881.5	881.5
25°	850.6	850.6	862.9	866.0	866.0
27.5°	830.5	830.5	844.4	849.0	849.0
30°	808.8	808.8	822.7	828.9	832.0
32.5°	782.5	785.6	801.1	808.8	811.9
35°	756.2	760.9	776.3	787.2	793.4
37.5°	728.4	733.0	751.6	764.0	771.7
40°	699.0	705.2	725.3	740.8	750.1
42.5°	666.5	675.8	699.0	719.1	731.5
45°	635.6	646.4	671.2	699.0	712.9
47.5°	601.6	614.0	641.8	677.4	691.3
50°	566.0	578.4	612.4	652.6	668.1
52.5°	530.5	544.4	584.6	627.9	646.4
55°	491.8	507.3	556.7	603.1	623.2
57.5°	451.6	470.1	525.8	575.3	596.9
60°	409.8	433.0	494.9	547.5	570.7
62.5°	366.5	394.4	464.0	519.6	544.4
65°	324.8	355.7	431.5	490.2	516.5
67.5°	279.9	318.6	399.0	462.4	487.1
70°	235.1	279.9	365.0	429.9	454.7
72.5°	190.2	244.3	331.0	389.7	389.7
75°	146.9	207.2	295.4	293.8	284.6
77.5°	111.3	173.2	242.8	207.2	208.8
80°	80.4	139.2	153.1	153.1	154.7
82.5°	54.1	106.7	99.0	97.4	100.5
85°	32.5	49.5	51.0	46.4	47.9
87.5°	15.5	17.0	13.9	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)