

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: P263332

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263332
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-LD5-40SE-SQP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2618.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

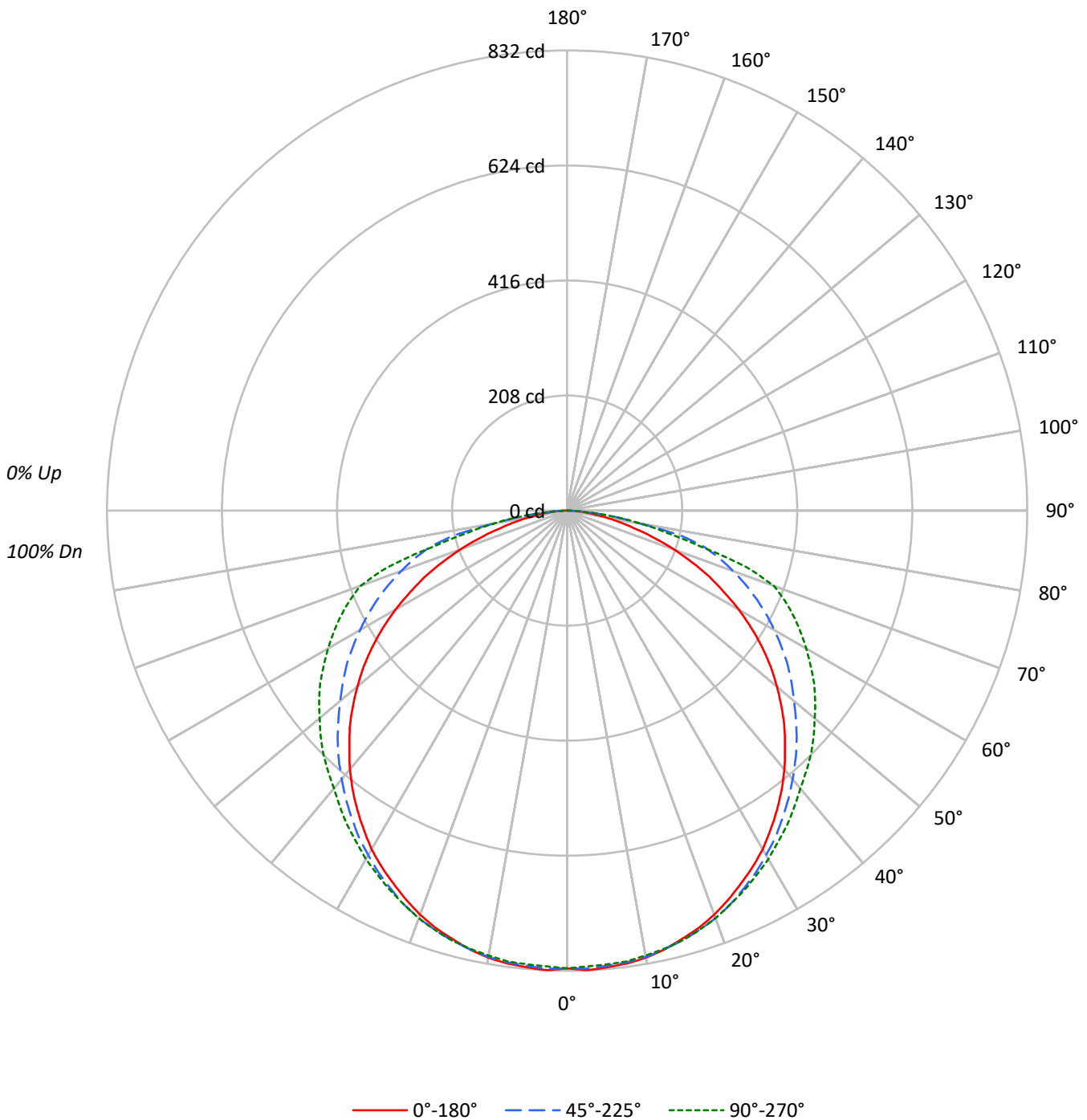
Input Watts (W): 30.597
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1114	1114	1114
5°	1120	1116	1112
10°	1121	1120	1116
15°	1117	1121	1121
20°	1113	1123	1123
25°	1104	1120	1124
30°	1099	1118	1130
35°	1086	1115	1139
40°	1074	1114	1152
45°	1058	1117	1186
50°	1036	1121	1223
55°	1009	1142	1278
60°	964	1164	1343
65°	904	1201	1438
70°	808	1255	1564
75°	668	1343	1293
80°	545	1038	1048
85°	438	689	647



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.0
10°-20°	226.8	8.7
20°-30°	346.6	13.2
30°-40°	423.9	16.2
40°-50°	453.6	17.3
50°-60°	434.4	16.6
60°-70°	367.5	14.0
70°-80°	232.9	8.9
80°-90°	53.6	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°	652.0	24.9
0°-40°	1076.0	41.1
0°-60°	1964.0	75.0
0°-90°	2618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	829	825	826	825	824	79
15°	802	801	805	805	805	226
25°	744	744	755	757	757	343
35°	661	665	679	688	694	414
45°	556	565	587	611	623	428
55°	430	444	487	527	545	384
65°	284	311	377	429	452	280
75°	128	181	258	257	249	140
85°	28	43	45	41	42	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.6	827.6	827.6	827.6	827.6
2.5°	831.7	827.6	829.0	827.6	824.9
5°	829.0	824.9	826.2	824.9	823.5
7.5°	826.2	822.2	823.5	822.2	822.2
10°	820.8	816.8	819.5	818.1	816.8
12.5°	812.7	810.0	812.7	811.4	811.4
15°	801.9	800.6	804.6	804.6	804.6
17.5°	791.1	789.7	795.1	795.1	795.1
20°	777.6	776.2	784.3	784.3	784.3
22.5°	761.3	760.0	770.8	770.8	770.8
25°	743.8	743.8	754.6	757.3	757.3
27.5°	726.2	726.2	738.3	742.4	742.4
30°	707.2	707.2	719.4	724.8	727.5
32.5°	684.3	687.0	700.5	707.2	709.9
35°	661.3	665.3	678.8	688.3	693.7
37.5°	636.9	641.0	657.2	668.0	674.8
40°	611.2	616.6	634.2	647.7	655.9
42.5°	582.8	590.9	611.2	628.8	639.6
45°	555.8	565.3	586.9	611.2	623.4
47.5°	526.0	536.9	561.2	592.3	604.5
50°	494.9	505.8	535.5	570.7	584.2
52.5°	463.8	476.0	511.2	549.0	565.3
55°	430.0	443.5	486.8	527.4	545.0
57.5°	394.9	411.1	459.8	503.1	522.0
60°	358.4	378.6	432.7	478.7	499.0
62.5°	320.5	344.8	405.7	454.4	476.0
65°	284.0	311.0	377.3	428.7	451.7
67.5°	244.8	278.6	348.9	404.3	426.0
70°	205.5	244.8	319.1	375.9	397.6
72.5°	166.3	213.7	289.4	340.8	340.8
75°	128.5	181.2	258.3	256.9	248.8
77.5°	97.4	151.5	212.3	181.2	182.6
80°	70.3	121.7	133.9	133.9	135.2
82.5°	47.3	93.3	86.5	85.2	87.9
85°	28.4	43.3	44.6	40.6	41.9
87.5°	13.5	14.9	12.2	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)