

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: P263336

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263336
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2786.0 lumens
Efficiency: N/A
Efficacy: 89.2 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

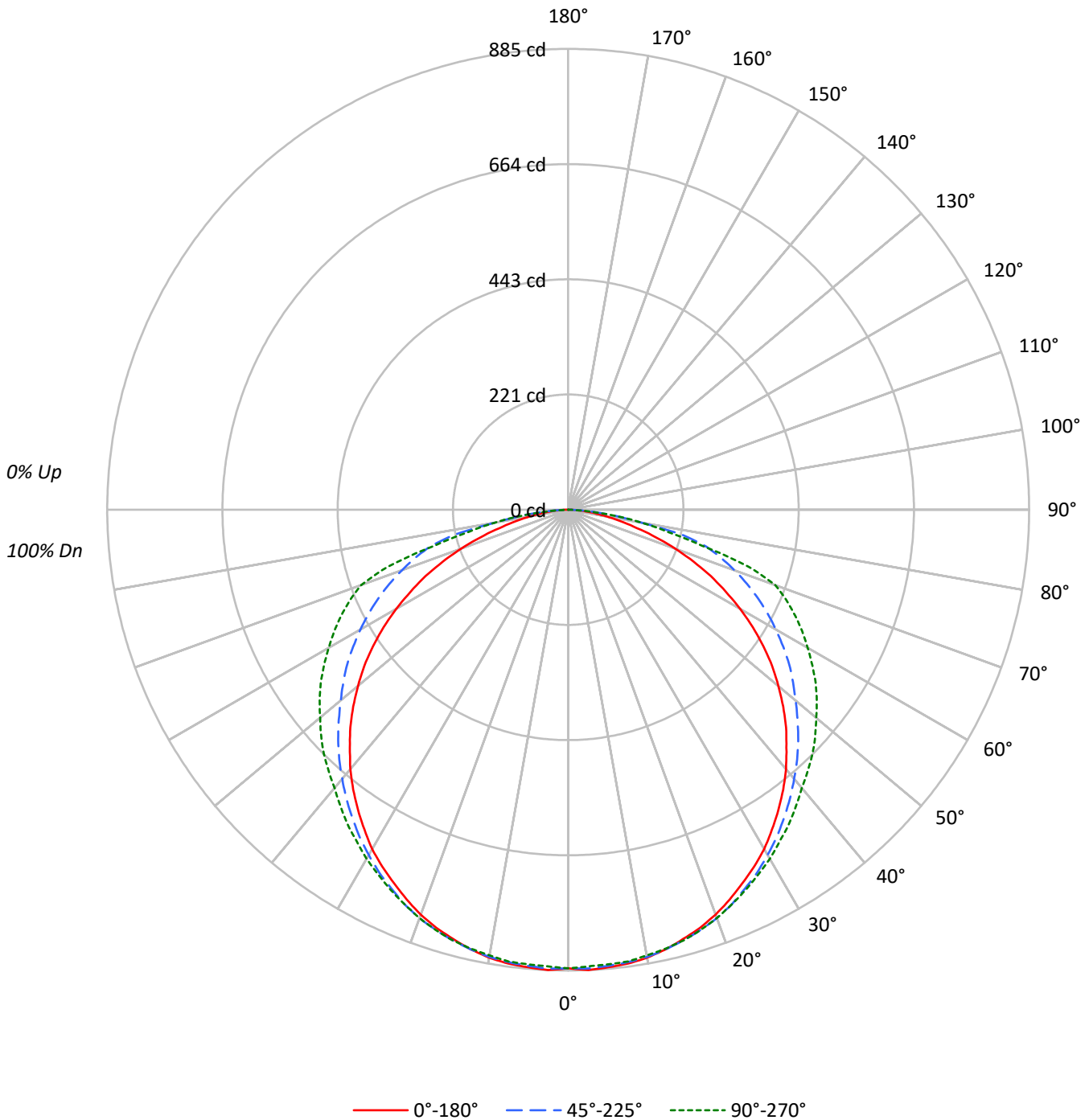
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1185	1185	1185
5°	1191	1188	1184
10°	1193	1192	1188
15°	1189	1193	1193
20°	1185	1195	1195
25°	1175	1192	1196
30°	1169	1189	1203
35°	1156	1187	1213
40°	1143	1185	1226
45°	1126	1188	1262
50°	1102	1193	1301
55°	1073	1215	1360
60°	1026	1239	1429
65°	962	1278	1530
70°	860	1336	1664
75°	711	1429	1377
80°	580	1104	1115
85°	466	733	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.0
10°-20°	241.4	8.7
20°-30°	368.9	13.2
30°-40°	451.2	16.2
40°-50°	482.8	17.3
50°-60°	462.3	16.6
60°-70°	391.0	14.0
70°-80°	247.9	8.9
80°-90°	57.0	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°	693.9	24.9
0°-40°	1145.1	41.1
0°-60°	2090.1	75.0
0°-90°	2786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	882	878	879	878	876	84
15°	853	852	856	856	856	241
25°	792	792	803	806	806	365
35°	704	708	722	732	738	440
45°	592	602	625	650	663	456
55°	458	472	518	561	580	408
65°	302	331	402	456	481	298
75°	137	193	275	273	265	149
85°	30	46	48	43	45	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	880.7	880.7	880.7	880.7	880.7
2.5°	885.0	880.7	882.1	880.7	877.8
5°	882.1	877.8	879.3	877.8	876.4
7.5°	879.3	875.0	876.4	875.0	875.0
10°	873.5	869.2	872.1	870.6	869.2
12.5°	864.9	862.0	864.9	863.4	863.4
15°	853.4	851.9	856.2	856.2	856.2
17.5°	841.9	840.4	846.2	846.2	846.2
20°	827.5	826.0	834.7	834.7	834.7
22.5°	810.2	808.8	820.3	820.3	820.3
25°	791.5	791.5	803.0	805.9	805.9
27.5°	772.8	772.8	785.7	790.0	790.0
30°	752.6	752.6	765.6	771.3	774.2
32.5°	728.2	731.0	745.4	752.6	755.5
35°	703.7	708.0	722.4	732.5	738.2
37.5°	677.8	682.1	699.4	710.9	718.1
40°	650.5	656.2	674.9	689.3	697.9
42.5°	620.2	628.9	650.5	669.2	680.7
45°	591.5	601.5	624.6	650.5	663.4
47.5°	559.8	571.3	597.2	630.3	643.3
50°	526.7	538.2	569.9	607.3	621.7
52.5°	493.6	506.6	544.0	584.3	601.5
55°	457.6	472.0	518.1	561.2	579.9
57.5°	420.2	437.5	489.3	535.3	555.5
60°	381.4	402.9	460.5	509.4	531.0
62.5°	341.1	367.0	431.7	483.5	506.6
65°	302.2	331.0	401.5	456.2	480.6
67.5°	260.5	296.4	371.3	430.3	453.3
70°	218.7	260.5	339.6	400.1	423.1
72.5°	177.0	227.4	308.0	362.6	362.6
75°	136.7	192.8	274.9	273.4	264.8
77.5°	103.6	161.2	225.9	192.8	194.3
80°	74.8	129.5	142.5	142.5	143.9
82.5°	50.4	99.3	92.1	90.7	93.5
85°	30.2	46.1	47.5	43.2	44.6
87.5°	14.4	15.8	13.0	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)