

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: P263376

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263376
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-LD5-40-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: 2197.0 lumens
Efficiency: N/A
Efficacy: 78.5 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

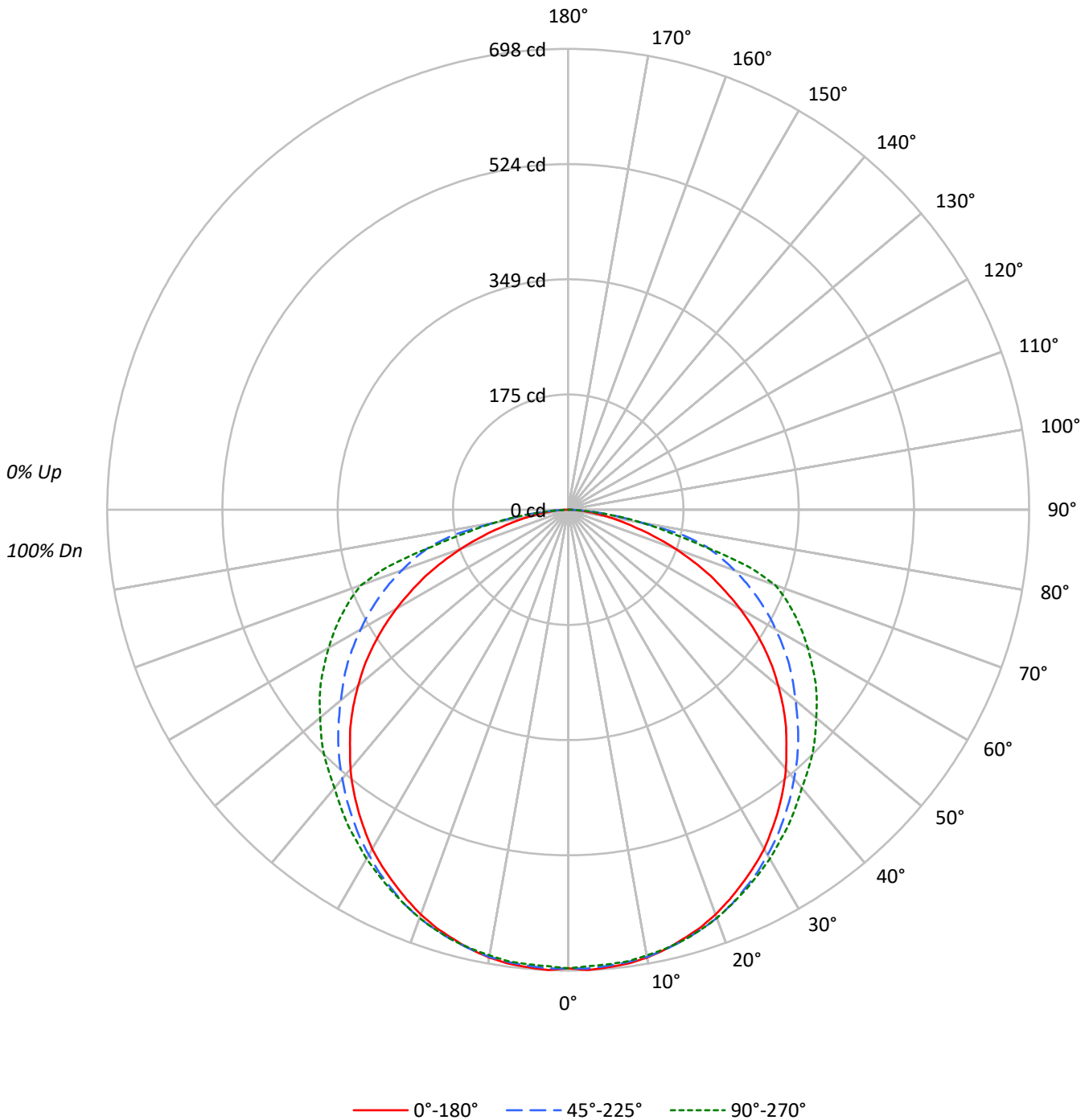
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	934	934	934
5°	939	937	933
10°	941	940	936
15°	937	941	941
20°	934	942	942
25°	927	940	943
30°	922	938	948
35°	911	936	956
40°	901	935	967
45°	887	937	996
50°	869	941	1026
55°	847	958	1073
60°	809	977	1127
65°	759	1008	1207
70°	679	1054	1312
75°	560	1127	1085
80°	457	870	879
85°	367	577	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.0
10°-20°	190.3	8.7
20°-30°	290.9	13.2
30°-40°	355.8	16.2
40°-50°	380.7	17.3
50°-60°	364.5	16.6
60°-70°	308.4	14.0
70°-80°	195.5	8.9
80°-90°	45.0	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°	547.2	24.9
0°-40°	903.0	41.1
0°-60°	1648.2	75.0
0°-90°	2197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	696	692	693	692	691	66
15°	673	672	675	675	675	190
25°	624	624	633	636	636	288
35°	555	558	570	578	582	347
45°	466	474	492	513	523	359
55°	361	372	408	443	457	322
65°	238	261	317	360	379	235
75°	108	152	217	216	209	117
85°	24	36	37	34	35	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	694.5	694.5	694.5	694.5	694.5
2.5°	697.9	694.5	695.6	694.5	692.2
5°	695.6	692.2	693.4	692.2	691.1
7.5°	693.4	690.0	691.1	690.0	690.0
10°	688.8	685.4	687.7	686.6	685.4
12.5°	682.0	679.8	682.0	680.9	680.9
15°	673.0	671.8	675.2	675.2	675.2
17.5°	663.9	662.7	667.3	667.3	667.3
20°	652.5	651.4	658.2	658.2	658.2
22.5°	638.9	637.8	646.9	646.9	646.9
25°	624.2	624.2	633.2	635.5	635.5
27.5°	609.4	609.4	619.6	623.0	623.0
30°	593.5	593.5	603.7	608.3	610.5
32.5°	574.2	576.5	587.8	593.5	595.8
35°	554.9	558.3	569.7	577.6	582.2
37.5°	534.5	537.9	551.5	560.6	566.3
40°	512.9	517.5	532.2	543.6	550.4
42.5°	489.1	495.9	512.9	527.7	536.8
45°	466.4	474.4	492.5	512.9	523.2
47.5°	441.4	450.5	471.0	497.1	507.3
50°	415.3	424.4	449.4	478.9	490.2
52.5°	389.2	399.5	429.0	460.7	474.4
55°	360.9	372.2	408.5	442.6	457.3
57.5°	331.4	345.0	385.8	422.2	438.0
60°	300.7	317.8	363.1	401.7	418.8
62.5°	269.0	289.4	340.4	381.3	399.5
65°	238.3	261.0	316.6	359.7	379.0
67.5°	205.4	233.8	292.8	339.3	357.5
70°	172.5	205.4	267.8	315.5	333.6
72.5°	139.6	179.3	242.9	286.0	286.0
75°	107.8	152.1	216.8	215.6	208.8
77.5°	81.7	127.1	178.2	152.1	153.2
80°	59.0	102.1	112.3	112.3	113.5
82.5°	39.7	78.3	72.6	71.5	73.8
85°	23.8	36.3	37.4	34.0	35.2
87.5°	11.3	12.5	10.2	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)