

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: P263889

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2549.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

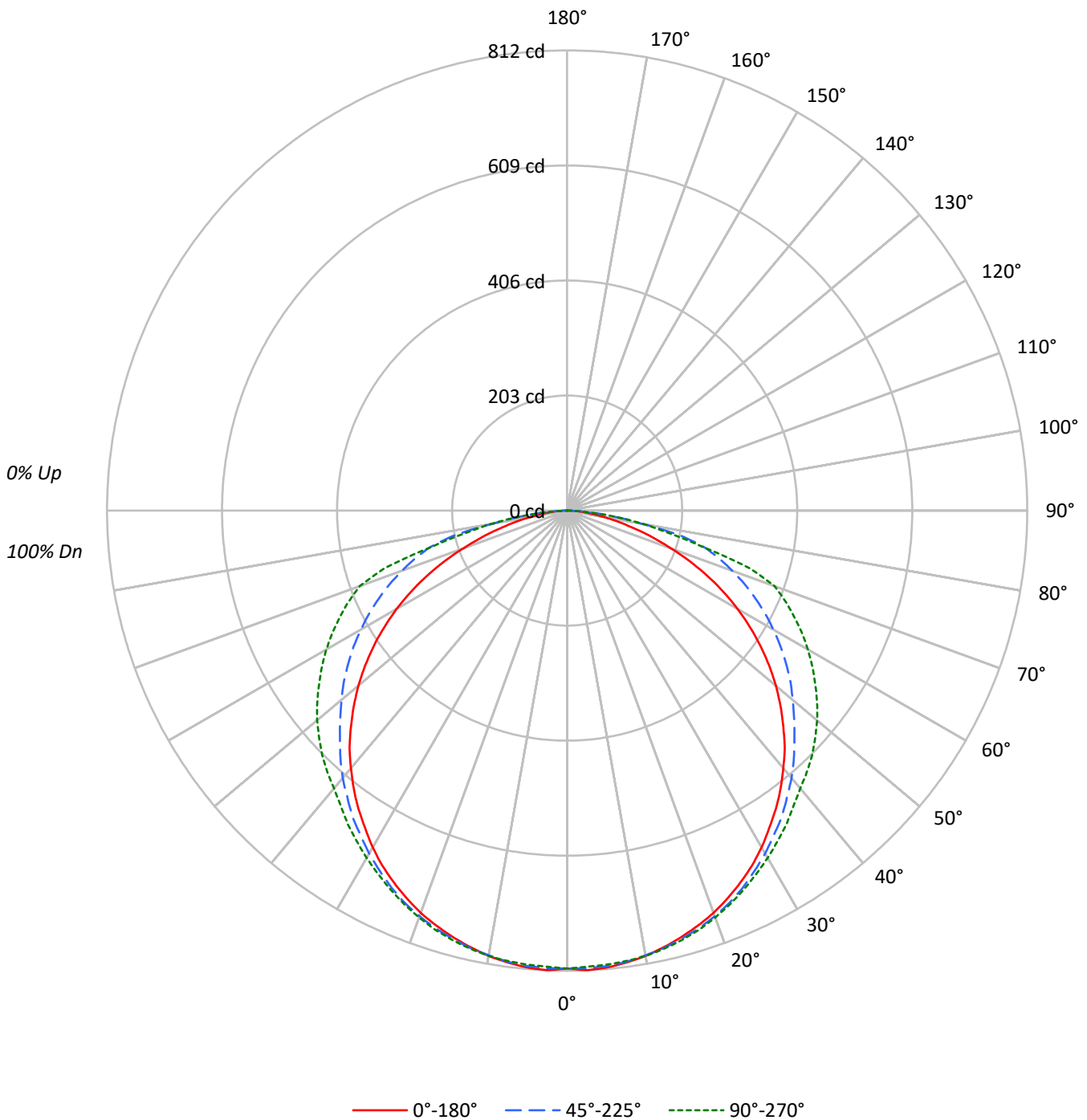
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1087	1087	1087
5°	1093	1090	1086
10°	1090	1089	1090
15°	1085	1089	1092
20°	1082	1090	1094
25°	1075	1090	1095
30°	1066	1086	1100
35°	1055	1084	1109
40°	1042	1082	1124
45°	1027	1079	1163
50°	1006	1087	1205
55°	977	1107	1254
60°	935	1131	1320
65°	871	1167	1406
70°	770	1219	1530
75°	646	1304	1285
80°	515	1031	1069
85°	406	698	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	3.0
10°-20°	220.6	8.7
20°-30°	336.9	13.2
30°-40°	411.9	16.2
40°-50°	440.9	17.3
50°-60°	422.9	16.6
60°-70°	357.1	14.0
70°-80°	228.2	9.0
80°-90°	54.0	2.1
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°	634.1	24.9
0°-40°	1046.0	41.0
0°-60°	1909.8	74.9
0°-90°	2549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	809	804	807	806	804	77
15°	779	777	782	784	784	220
25°	724	723	734	736	738	334
35°	642	647	660	669	675	402
45°	540	548	567	594	611	416
55°	417	430	472	514	534	372
65°	274	300	366	418	442	270
75°	124	177	251	256	247	134
85°	26	44	45	44	41	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808.1	808.1	808.1	808.1	808.1
2.5°	811.8	806.8	808.1	808.1	805.5
5°	809.3	804.3	806.8	805.5	804.3
7.5°	804.3	800.5	803.0	803.0	801.8
10°	798.0	794.3	796.8	798.0	798.0
12.5°	789.2	786.7	790.5	790.5	791.7
15°	779.2	776.7	781.7	784.2	784.2
17.5°	767.9	766.6	772.9	774.2	775.4
20°	755.4	754.1	761.6	761.6	764.1
22.5°	740.3	739.0	749.1	749.1	751.6
25°	724.0	722.7	734.0	736.5	737.8
27.5°	706.4	705.2	716.5	720.2	722.7
30°	686.3	686.3	698.9	703.9	707.7
32.5°	663.8	667.5	678.8	686.3	691.4
35°	642.4	647.4	660.0	668.8	675.1
37.5°	618.6	623.6	637.4	648.7	656.2
40°	593.5	599.8	616.1	628.6	639.9
42.5°	568.4	574.7	592.2	611.1	626.1
45°	539.5	548.3	567.1	593.5	611.1
47.5°	510.7	519.5	543.3	575.9	593.5
50°	480.6	490.6	519.5	557.1	575.9
52.5°	449.2	460.5	496.9	537.0	555.9
55°	416.6	430.4	471.8	514.4	534.5
57.5°	382.7	397.8	446.7	491.9	513.2
60°	347.6	366.4	420.3	468.0	490.6
62.5°	311.2	333.8	394.0	442.9	466.8
65°	273.5	299.9	366.4	417.8	441.7
67.5°	234.6	269.8	338.8	392.7	416.6
70°	195.7	237.1	309.9	365.1	389.0
72.5°	159.4	207.0	281.1	332.5	337.5
75°	124.2	176.9	250.9	256.0	247.2
77.5°	92.9	146.8	207.0	184.4	183.2
80°	66.5	117.9	133.0	136.8	138.0
82.5°	43.9	89.1	86.6	89.1	87.8
85°	26.3	43.9	45.2	43.9	41.4
87.5°	12.5	16.3	12.5	11.3	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)