

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: P263381

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263381
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2531.0 lumens
Efficiency: N/A
Efficacy: 86.9 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

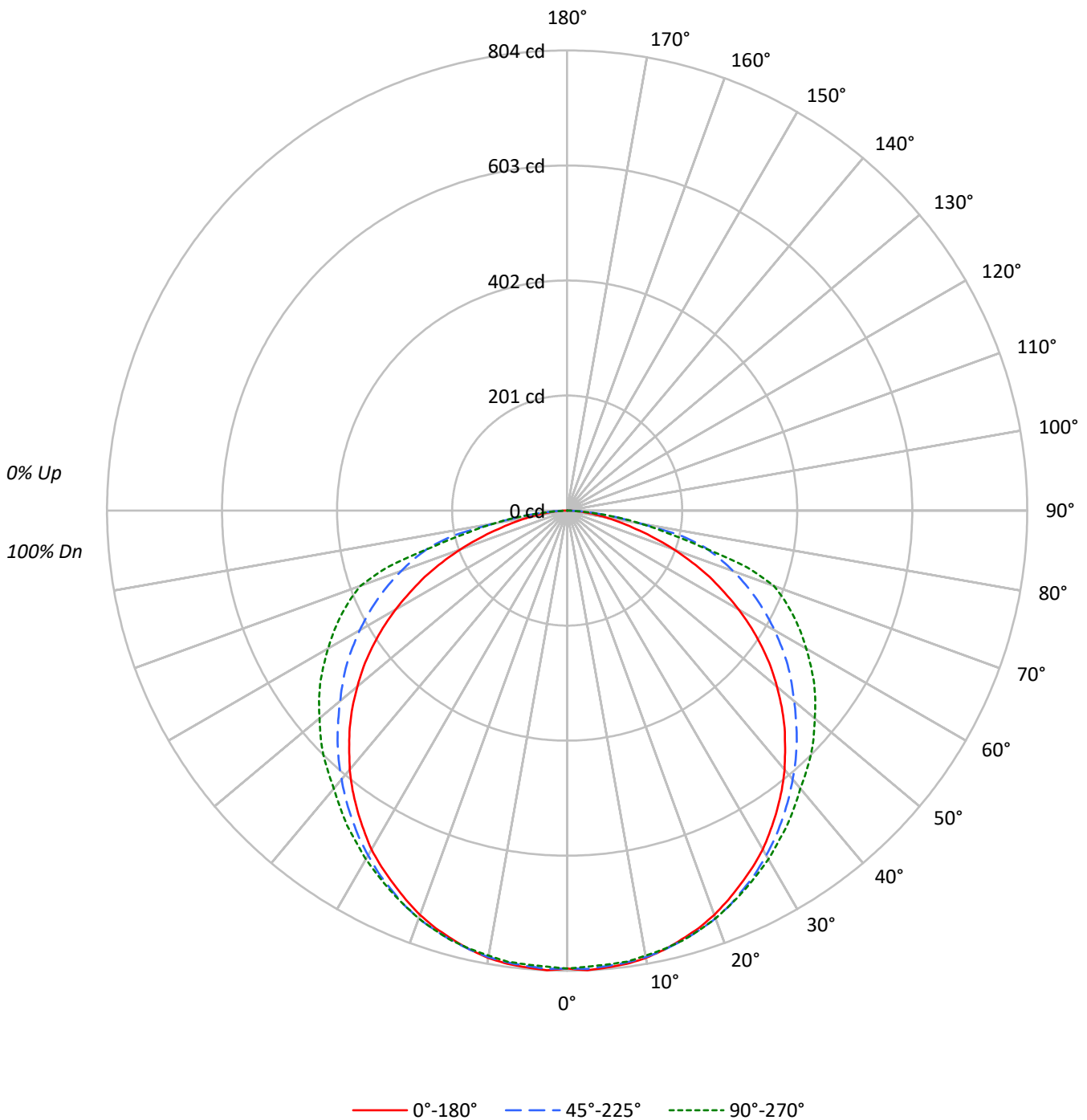
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	1077	1077	1077
5°	1082	1079	1075
10°	1084	1082	1079
15°	1080	1084	1084
20°	1076	1086	1086
25°	1067	1083	1087
30°	1062	1081	1093
35°	1050	1078	1102
40°	1038	1077	1114
45°	1022	1080	1147
50°	1002	1084	1182
55°	975	1104	1236
60°	932	1126	1298
65°	874	1161	1390
70°	782	1214	1512
75°	646	1298	1251
80°	527	1003	1013
85°	425	665	625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	3.0
10°-20°	219.3	8.7
20°-30°	335.1	13.2
30°-40°	409.9	16.2
40°-50°	438.6	17.3
50°-60°	419.9	16.6
60°-70°	355.2	14.0
70°-80°	225.2	8.9
80°-90°	51.8	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°	630.4	24.9
0°-40°	1040.2	41.1
0°-60°	1898.7	75.0
0°-90°	2531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	801	798	799	798	796	76
15°	775	774	778	778	778	219
25°	719	719	730	732	732	332
35°	639	643	656	665	671	400
45°	537	546	567	591	603	414
55°	416	429	471	510	527	371
65°	274	301	365	414	437	270
75°	124	175	250	248	241	135
85°	28	42	43	39	40	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	800.1	800.1	800.1	800.1	800.1
2.5°	804.0	800.1	801.4	800.1	797.5
5°	801.4	797.5	798.8	797.5	796.2
7.5°	798.8	794.9	796.2	794.9	794.9
10°	793.6	789.6	792.3	790.9	789.6
12.5°	785.7	783.1	785.7	784.4	784.4
15°	775.3	773.9	777.9	777.9	777.9
17.5°	764.8	763.5	768.7	768.7	768.7
20°	751.7	750.4	758.3	758.3	758.3
22.5°	736.0	734.7	745.2	745.2	745.2
25°	719.0	719.0	729.5	732.1	732.1
27.5°	702.0	702.0	713.8	717.7	717.7
30°	683.7	683.7	695.5	700.7	703.4
32.5°	661.5	664.1	677.2	683.7	686.4
35°	639.3	643.2	656.3	665.4	670.7
37.5°	615.8	619.7	635.4	645.8	652.4
40°	590.9	596.2	613.1	626.2	634.1
42.5°	563.5	571.3	590.9	607.9	618.4
45°	537.3	546.5	567.4	590.9	602.7
47.5°	508.6	519.0	542.5	572.6	584.4
50°	478.5	488.9	517.7	551.7	564.8
52.5°	448.4	460.2	494.2	530.8	546.5
55°	415.7	428.8	470.6	509.9	526.9
57.5°	381.7	397.4	444.5	486.3	504.6
60°	346.4	366.1	418.4	462.8	482.4
62.5°	309.8	333.4	392.2	439.3	460.2
65°	274.5	300.7	364.7	414.4	436.7
67.5°	236.6	269.3	337.3	390.9	411.8
70°	198.7	236.6	308.5	363.4	384.4
72.5°	160.8	206.6	279.8	329.5	329.5
75°	124.2	175.2	249.7	248.4	240.6
77.5°	94.1	146.4	205.3	175.2	176.5
80°	68.0	117.7	129.4	129.4	130.7
82.5°	45.8	90.2	83.7	82.4	85.0
85°	27.5	41.8	43.1	39.2	40.5
87.5°	13.1	14.4	11.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)