

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: P263161

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263161
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-L93050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2518.4 lumens
Efficiency: N/A
Efficacy: 85.5 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

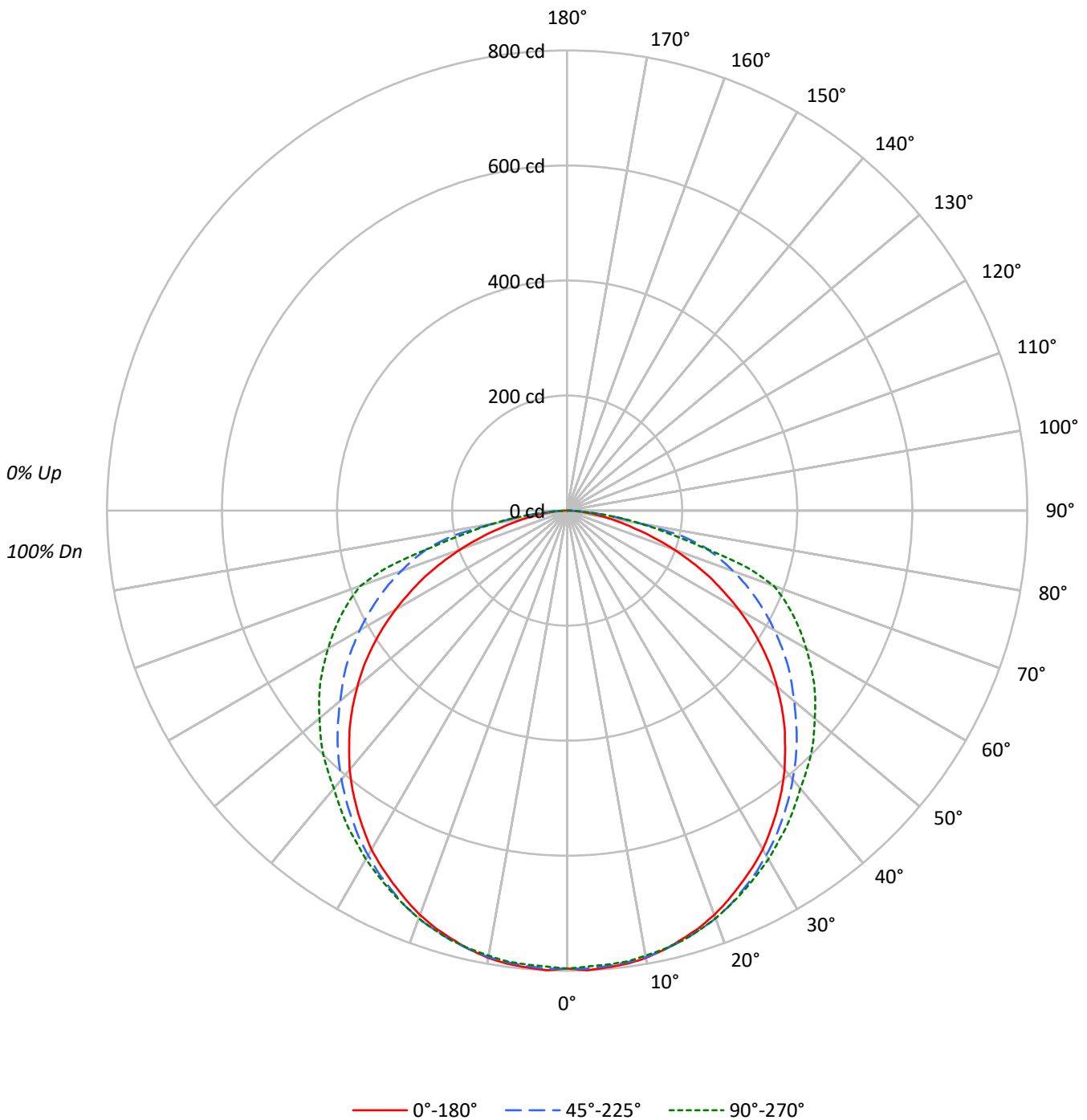
Input Watts (W): 29.459424
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1071	1071	1071
5°	1077	1073	1070
10°	1079	1077	1073
15°	1075	1078	1078
20°	1071	1080	1080
25°	1062	1078	1082
30°	1057	1075	1087
35°	1045	1073	1096
40°	1033	1072	1108
45°	1017	1074	1141
50°	997	1078	1176
55°	970	1099	1230
60°	928	1120	1292
65°	870	1155	1383
70°	778	1208	1504
75°	643	1292	1245
80°	524	998	1008
85°	421	662	622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.0
10°-20°	218.2	8.7
20°-30°	333.5	13.2
30°-40°	407.8	16.2
40°-50°	436.4	17.3
50°-60°	417.9	16.6
60°-70°	353.5	14.0
70°-80°	224.1	8.9
80°-90°	51.5	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°	627.2	24.9
0°-40°	1035.1	41.1
0°-60°	1889.3	75.0
0°-90°	2518.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2518.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	797	794	795	794	792	76
15°	771	770	774	774	774	218
25°	716	716	726	728	728	330
35°	636	640	653	662	667	398
45°	535	544	565	588	600	412
55°	414	427	468	507	524	369
65°	273	299	363	412	434	269
75°	124	174	248	247	239	134
85°	27	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°	796.1	796.1	796.1	796.1	796.1
2.5°	800.0	796.1	797.4	796.1	793.5
5°	797.4	793.5	794.8	793.5	792.2
7.5°	794.8	790.9	792.2	790.9	790.9
10°	789.6	785.7	788.3	787.0	785.7
12.5°	781.8	779.2	781.8	780.5	780.5
15°	771.4	770.1	774.0	774.0	774.0
17.5°	761.0	759.7	764.9	764.9	764.9
20°	748.0	746.7	754.5	754.5	754.5
22.5°	732.4	731.1	741.5	741.5	741.5
25°	715.5	715.5	725.9	728.5	728.5
27.5°	698.5	698.5	710.2	714.2	714.2
30°	680.3	680.3	692.0	697.2	699.8
32.5°	658.2	660.8	673.8	680.3	682.9
35°	636.1	640.0	653.0	662.1	667.3
37.5°	612.7	616.6	632.2	642.6	649.1
40°	588.0	593.2	610.1	623.1	630.9
42.5°	560.7	568.5	588.0	604.9	615.3
45°	534.6	543.7	564.6	588.0	599.7
47.5°	506.0	516.4	539.8	569.8	581.5
50°	476.1	486.5	515.1	548.9	562.0
52.5°	446.2	457.9	491.7	528.1	543.7
55°	413.7	426.7	468.3	507.3	524.2
57.5°	379.8	395.5	442.3	483.9	502.1
60°	344.7	364.2	416.3	460.5	480.0
62.5°	308.3	331.7	390.2	437.1	457.9
65°	273.2	299.2	362.9	412.4	434.5
67.5°	235.4	268.0	335.6	388.9	409.8
70°	197.7	235.4	307.0	361.6	382.4
72.5°	160.0	205.5	278.4	327.8	327.8
75°	123.6	174.3	248.5	247.2	239.4
77.5°	93.7	145.7	204.2	174.3	175.6
80°	67.6	117.1	128.8	128.8	130.1
82.5°	45.5	89.8	83.3	82.0	84.6
85°	27.3	41.6	42.9	39.0	40.3
87.5°	13.0	14.3	11.7	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)