

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: P263157

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263157
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-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: 2097.8 lumens
Efficiency: N/A
Efficacy: 72.5 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

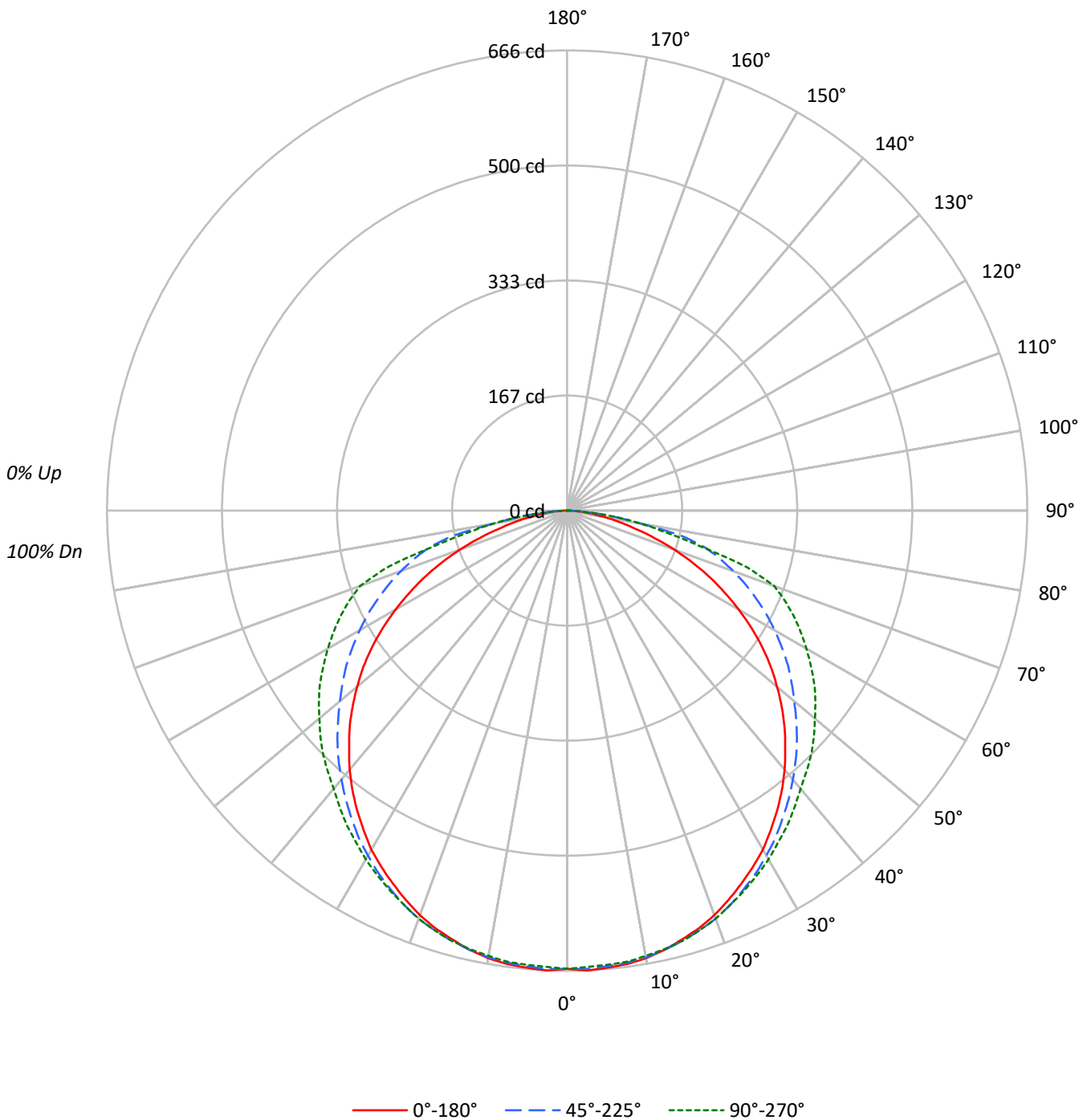
Input Watts (W): 28.922256
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	892	892	892
5°	897	894	891
10°	899	897	894
15°	895	898	898
20°	892	900	900
25°	885	898	901
30°	880	896	906
35°	870	893	913
40°	860	893	923
45°	847	895	950
50°	830	898	980
55°	808	915	1024
60°	773	933	1076
65°	724	962	1152
70°	648	1006	1253
75°	535	1076	1037
80°	436	831	840
85°	352	553	519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	3.0
10°-20°	181.7	8.7
20°-30°	277.8	13.2
30°-40°	339.7	16.2
40°-50°	363.5	17.3
50°-60°	348.1	16.6
60°-70°	294.4	14.0
70°-80°	186.7	8.9
80°-90°	42.9	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°	522.5	24.9
0°-40°	862.2	41.1
0°-60°	1573.7	75.0
0°-90°	2097.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2097.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	663	663	663	663	663	
5°	664	661	662	661	660	63
15°	642	642	645	645	645	181
25°	596	596	605	607	607	275
35°	530	533	544	552	556	332
45°	445	453	470	490	500	343
55°	345	355	390	423	437	307
65°	228	249	302	344	362	224
75°	103	145	207	206	199	112
85°	23	35	36	32	34	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	663.1	663.1	663.1	663.1	663.1
2.5°	666.4	663.1	664.2	663.1	661.0
5°	664.2	661.0	662.1	661.0	659.9
7.5°	662.1	658.8	659.9	658.8	658.8
10°	657.7	654.5	656.6	655.6	654.5
12.5°	651.2	649.0	651.2	650.1	650.1
15°	642.5	641.5	644.7	644.7	644.7
17.5°	633.9	632.8	637.1	637.1	637.1
20°	623.0	622.0	628.5	628.5	628.5
22.5°	610.0	609.0	617.6	617.6	617.6
25°	596.0	596.0	604.6	606.8	606.8
27.5°	581.9	581.9	591.6	594.9	594.9
30°	566.7	566.7	576.5	580.8	583.0
32.5°	548.3	550.4	561.3	566.7	568.9
35°	529.9	533.1	543.9	551.5	555.9
37.5°	510.4	513.6	526.6	535.3	540.7
40°	489.8	494.1	508.2	519.0	525.5
42.5°	467.0	473.5	489.8	503.9	512.5
45°	445.3	452.9	470.3	489.8	499.5
47.5°	421.5	430.2	449.7	474.6	484.3
50°	396.6	405.2	429.1	457.3	468.1
52.5°	371.7	381.4	409.6	439.9	452.9
55°	344.6	355.4	390.1	422.6	436.7
57.5°	316.4	329.4	368.4	403.1	418.3
60°	287.1	303.4	346.7	383.6	399.8
62.5°	256.8	276.3	325.1	364.1	381.4
65°	227.5	249.2	302.3	343.5	361.9
67.5°	196.1	223.2	279.6	324.0	341.3
70°	164.7	196.1	255.7	301.2	318.6
72.5°	133.3	171.2	231.9	273.1	273.1
75°	102.9	145.2	207.0	205.9	199.4
77.5°	78.0	121.4	170.1	145.2	146.3
80°	56.3	97.5	107.3	107.3	108.4
82.5°	37.9	74.8	69.3	68.3	70.4
85°	22.8	34.7	35.8	32.5	33.6
87.5°	10.8	11.9	9.8	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)