

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: P275563

Luminaire Tested: **14CZ2-25-S-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-S-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2574.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

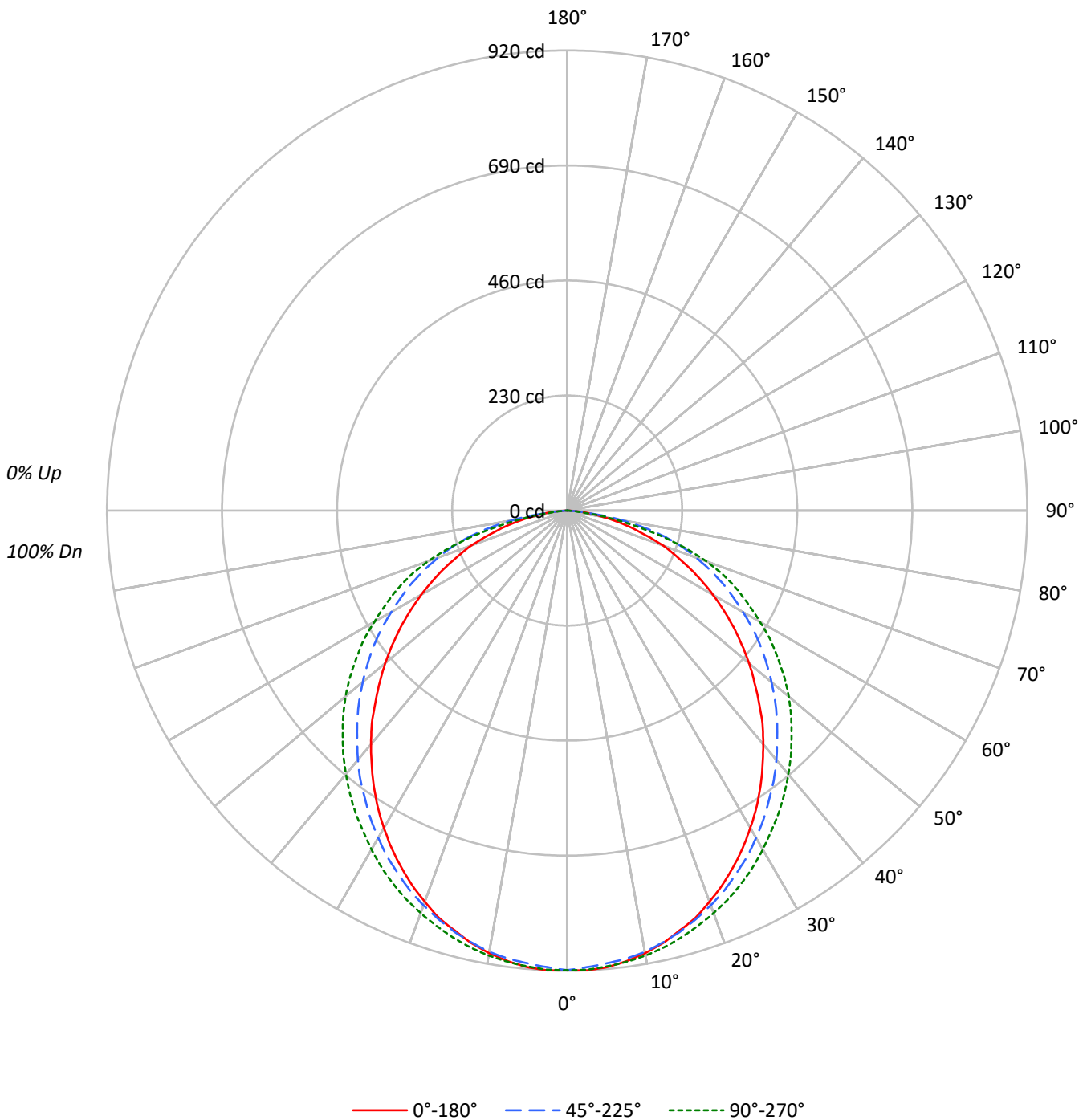
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275563

CATALOG NUMBER: 14CZ2-25-S-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P275563

CATALOG NUMBER: 14CZ2-25-S-UNV-L83050-W2A1-U-4000K

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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2473	2473	2473
5°	2475	2455	2472
10°	2455	2448	2469
15°	2421	2428	2460
20°	2383	2405	2452
25°	2334	2376	2444
30°	2276	2348	2431
35°	2213	2314	2423
40°	2143	2286	2416
45°	2064	2258	2414
50°	1988	2233	2420
55°	1904	2215	2413
60°	1813	2184	2397
65°	1706	2178	2397
70°	1607	2159	2330
75°	1393	2110	1990
80°	1127	1702	1325
85°	747	590	395



TEST NUMBER: P275563

CATALOG NUMBER: 14CZ2-25-S-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	3.4
10°-20°	246.9	9.6
20°-30°	370.4	14.4
30°-40°	441.8	17.2
40°-50°	456.7	17.7
50°-60°	417.0	16.2
60°-70°	328.2	12.7
70°-80°	191.0	7.4
80°-90°	35.2	1.4
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°	704.0	27.4
0°-40°	1145.8	44.5
0°-60°	2019.6	78.5
0°-90°	2574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	916	914	909	916	915	87
15°	869	870	872	883	883	245
25°	786	790	800	819	823	362
35°	674	683	704	731	738	421
45°	542	560	593	627	634	419
55°	406	428	472	507	514	363
65°	268	296	342	369	376	266
75°	134	166	203	199	191	142
85°	24	34	19	15	13	31
90°	0	0	0	0	0	



TEST NUMBER: P275563

CATALOG NUMBER: 14CZ2-25-S-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.9	918.9	918.9	918.9	918.9
2.5°	920.2	917.6	913.8	920.2	918.9
5°	916.3	913.8	908.7	916.3	915.0
7.5°	908.7	906.1	903.6	911.2	909.9
10°	898.5	897.2	895.9	904.8	903.6
12.5°	885.7	885.7	884.4	894.6	894.6
15°	869.1	870.4	871.7	883.1	883.1
17.5°	853.8	852.5	856.3	869.1	870.4
20°	832.1	834.6	839.7	855.1	856.3
22.5°	810.4	812.9	821.9	837.2	841.0
25°	786.1	790.0	800.2	819.3	823.2
27.5°	760.6	765.7	779.8	800.2	804.0
30°	732.5	740.2	755.5	778.5	782.3
32.5°	704.5	712.1	731.3	754.2	759.3
35°	673.8	682.8	704.5	731.3	737.7
37.5°	641.9	653.4	678.9	705.7	713.4
40°	610.0	622.8	650.9	678.9	687.9
42.5°	578.1	590.9	621.5	653.4	662.4
45°	542.4	560.3	593.4	626.6	634.3
47.5°	507.9	527.1	564.1	597.3	607.5
50°	474.8	493.9	533.5	567.9	578.1
52.5°	440.3	460.7	502.8	538.6	547.5
55°	405.8	427.5	472.2	506.7	514.3
57.5°	371.4	394.4	440.3	473.5	482.4
60°	336.9	361.2	405.8	439.0	445.4
62.5°	302.5	328.0	373.9	403.3	409.7
65°	268.0	296.1	342.0	368.8	376.5
67.5°	234.8	262.9	307.6	333.1	339.5
70°	204.2	229.7	274.4	293.5	296.1
72.5°	165.9	197.8	241.2	251.4	245.0
75°	134.0	165.9	202.9	199.1	191.4
77.5°	102.1	134.0	158.3	145.5	135.3
80°	72.7	104.6	109.8	90.6	85.5
82.5°	47.2	72.7	61.3	47.2	38.3
85°	24.2	34.5	19.1	15.3	12.8
87.5°	7.7	5.1	2.6	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)