

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: P275565

Luminaire Tested: **14CZ2-25-S-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275565
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-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2598.0 lumens
Efficiency: N/A
Efficacy: 135.6 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

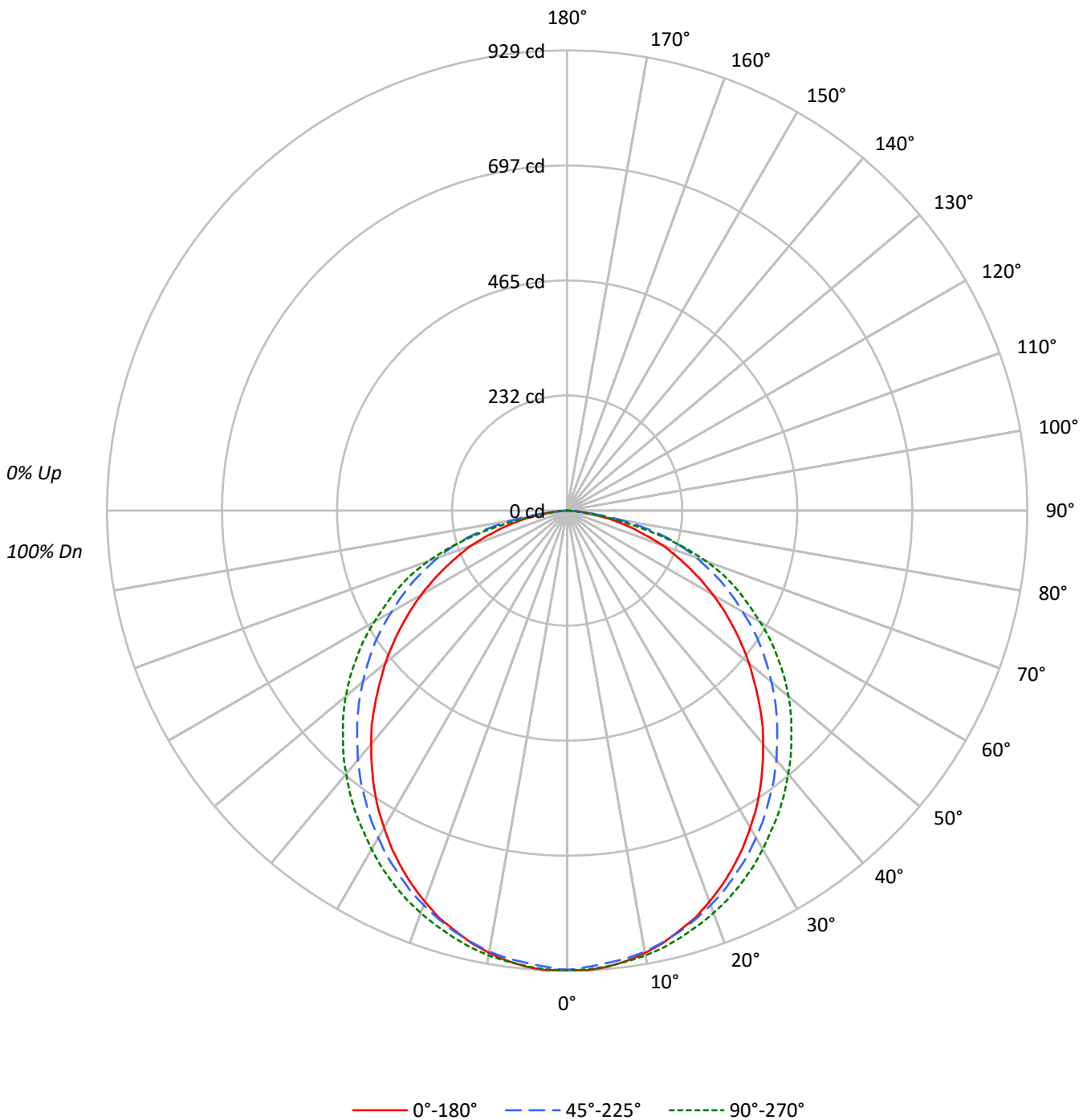
Input Watts (W): 19.158
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2496	2496	2496
5°	2498	2477	2495
10°	2478	2471	2492
15°	2444	2451	2483
20°	2405	2427	2475
25°	2356	2398	2467
30°	2298	2370	2454
35°	2234	2336	2446
40°	2163	2308	2439
45°	2083	2280	2436
50°	2006	2254	2443
55°	1922	2236	2435
60°	1830	2204	2420
65°	1722	2198	2420
70°	1622	2179	2351
75°	1407	2129	2009
80°	1137	1717	1337
85°	756	596	398



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.4
10°-20°	249.2	9.6
20°-30°	373.8	14.4
30°-40°	445.9	17.2
40°-50°	461.0	17.7
50°-60°	420.9	16.2
60°-70°	331.2	12.7
70°-80°	192.8	7.4
80°-90°	35.5	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°	710.6	27.4
0°-40°	1156.5	44.5
0°-60°	2038.4	78.5
0°-90°	2598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	925	922	917	925	924	88
15°	877	878	880	891	891	248
25°	794	797	808	827	831	365
35°	680	689	711	738	744	425
45°	547	566	599	632	640	423
55°	410	432	477	511	519	366
65°	270	299	345	372	380	269
75°	135	168	205	201	193	144
85°	24	35	19	16	13	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.4	927.4	927.4	927.4	927.4
2.5°	928.7	926.2	922.3	928.7	927.4
5°	924.9	922.3	917.1	924.9	923.6
7.5°	917.1	914.6	912.0	919.7	918.4
10°	906.8	905.5	904.3	913.3	912.0
12.5°	894.0	894.0	892.7	903.0	903.0
15°	877.2	878.5	879.8	891.4	891.4
17.5°	861.7	860.5	864.3	877.2	878.5
20°	839.9	842.4	847.6	863.0	864.3
22.5°	818.0	820.5	829.5	845.0	848.9
25°	793.5	797.3	807.6	827.0	830.8
27.5°	767.7	772.9	787.0	807.6	811.5
30°	739.4	747.1	762.6	785.8	789.6
32.5°	711.0	718.8	738.1	761.3	766.4
35°	680.1	689.1	711.0	738.1	744.5
37.5°	647.9	659.5	685.3	712.3	720.1
40°	615.7	628.6	656.9	685.3	694.3
42.5°	583.5	596.4	627.3	659.5	668.5
45°	547.4	565.5	599.0	632.5	640.2
47.5°	512.7	532.0	569.3	602.8	613.1
50°	479.2	498.5	538.4	573.2	583.5
52.5°	444.4	465.0	507.5	543.6	552.6
55°	409.6	431.5	476.6	511.4	519.1
57.5°	374.8	398.0	444.4	477.9	486.9
60°	340.1	364.5	409.6	443.1	449.6
62.5°	305.3	331.0	377.4	407.0	413.5
65°	270.5	298.8	345.2	372.3	380.0
67.5°	237.0	265.4	310.4	336.2	342.6
70°	206.1	231.9	276.9	296.3	298.8
72.5°	167.5	199.7	243.5	253.8	247.3
75°	135.3	167.5	204.8	200.9	193.2
77.5°	103.0	135.3	159.7	146.8	136.5
80°	73.4	105.6	110.8	91.5	86.3
82.5°	47.7	73.4	61.8	47.7	38.6
85°	24.5	34.8	19.3	15.5	12.9
87.5°	7.7	5.2	2.6	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)