

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: P275632

Luminaire Tested: **14CZ2-25-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275632
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-L82765-W2A1-U-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2556.0 lumens
Efficiency: N/A
Efficacy: 136.1 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

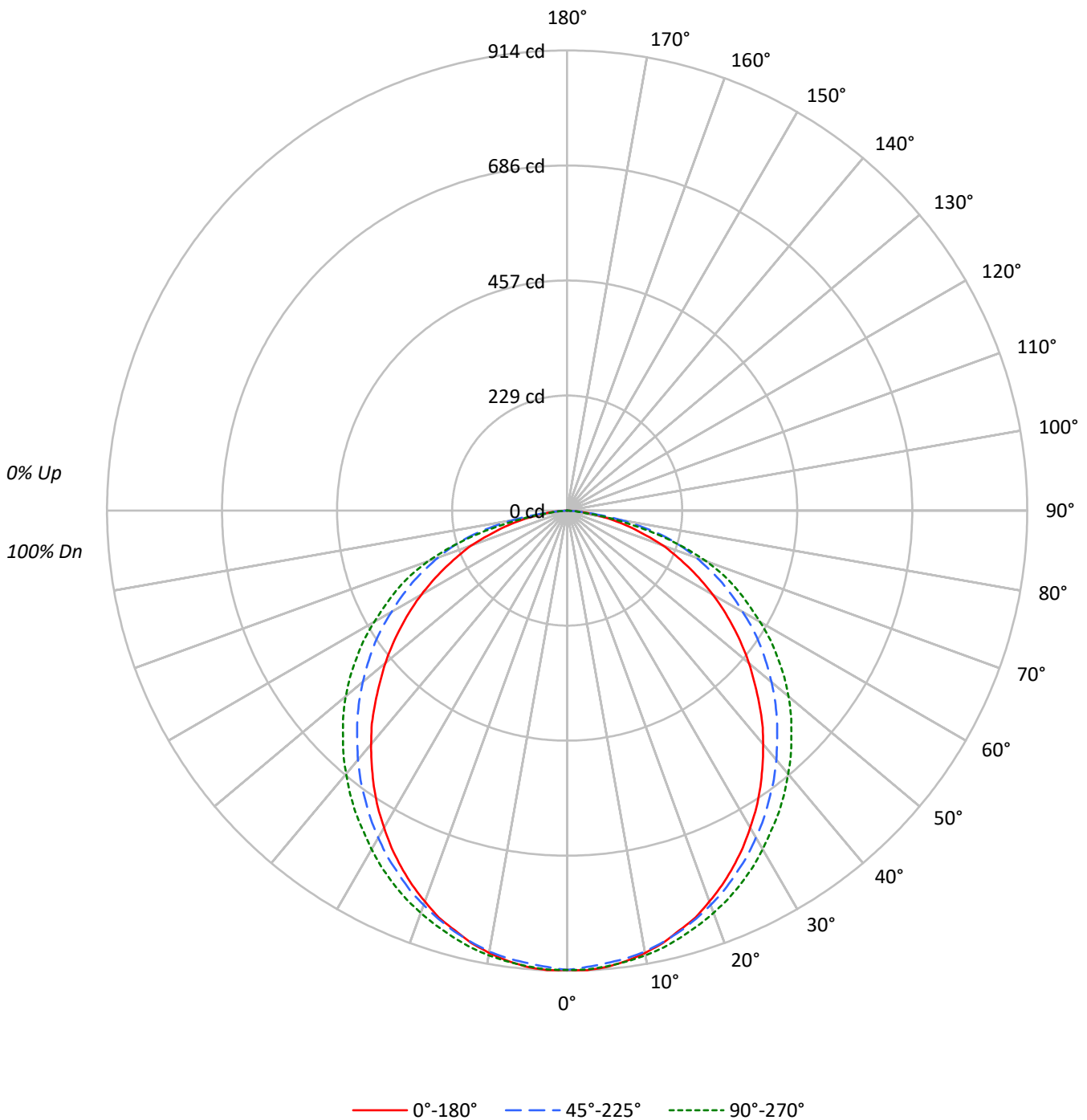
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
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°	2455	2455	2455
5°	2458	2437	2454
10°	2438	2431	2452
15°	2404	2411	2443
20°	2366	2388	2435
25°	2318	2359	2427
30°	2260	2331	2414
35°	2198	2298	2406
40°	2128	2270	2400
45°	2050	2243	2397
50°	1973	2218	2403
55°	1891	2200	2396
60°	1801	2169	2380
65°	1694	2162	2381
70°	1596	2144	2313
75°	1384	2095	1976
80°	1119	1689	1316
85°	744	587	392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	3.4
10°-20°	245.2	9.6
20°-30°	367.8	14.4
30°-40°	438.7	17.2
40°-50°	453.5	17.7
50°-60°	414.1	16.2
60°-70°	325.9	12.7
70°-80°	189.7	7.4
80°-90°	34.9	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°	699.1	27.4
0°-40°	1137.8	44.5
0°-60°	2005.5	78.5
0°-90°	2556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	910	907	902	910	909	86
15°	863	864	866	877	877	244
25°	781	784	795	814	817	359
35°	669	678	700	726	732	418
45°	539	556	589	622	630	416
55°	403	424	469	503	511	360
65°	266	294	340	366	374	264
75°	133	165	202	198	190	141
85°	24	34	19	15	13	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.4	912.4	912.4	912.4	912.4
2.5°	913.7	911.2	907.4	913.7	912.4
5°	909.9	907.4	902.3	909.9	908.6
7.5°	902.3	899.8	897.2	904.8	903.6
10°	892.2	890.9	889.6	898.5	897.2
12.5°	879.5	879.5	878.2	888.4	888.4
15°	863.0	864.3	865.6	877.0	877.0
17.5°	847.8	846.6	850.4	863.0	864.3
20°	826.3	828.8	833.9	849.1	850.4
22.5°	804.7	807.3	816.1	831.3	835.1
25°	780.7	784.5	794.6	813.6	817.4
27.5°	755.3	760.4	774.3	794.6	798.4
30°	727.4	735.0	750.2	773.0	776.8
32.5°	699.5	707.1	726.2	749.0	754.0
35°	669.1	678.0	699.5	726.2	732.5
37.5°	637.4	648.9	674.2	700.8	708.4
40°	605.8	618.4	646.3	674.2	683.1
42.5°	574.1	586.8	617.2	648.9	657.7
45°	538.6	556.3	589.3	622.2	629.8
47.5°	504.4	523.4	560.1	593.1	603.2
50°	471.4	490.4	529.7	563.9	574.1
52.5°	437.2	457.5	499.3	534.8	543.7
55°	403.0	424.5	468.9	503.1	510.7
57.5°	368.8	391.6	437.2	470.2	479.0
60°	334.6	358.6	403.0	435.9	442.3
62.5°	300.3	325.7	371.3	400.5	406.8
65°	266.1	294.0	339.6	366.2	373.9
67.5°	233.2	261.1	305.4	330.8	337.1
70°	202.8	228.1	272.5	291.5	294.0
72.5°	164.7	196.4	239.5	249.7	243.3
75°	133.1	164.7	201.5	197.7	190.1
77.5°	101.4	133.1	157.1	144.5	134.3
80°	72.2	103.9	109.0	90.0	84.9
82.5°	46.9	72.2	60.8	46.9	38.0
85°	24.1	34.2	19.0	15.2	12.7
87.5°	7.6	5.1	2.5	2.5	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)