

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: P275451

Luminaire Tested: **14CZ2-20-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2075.0 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

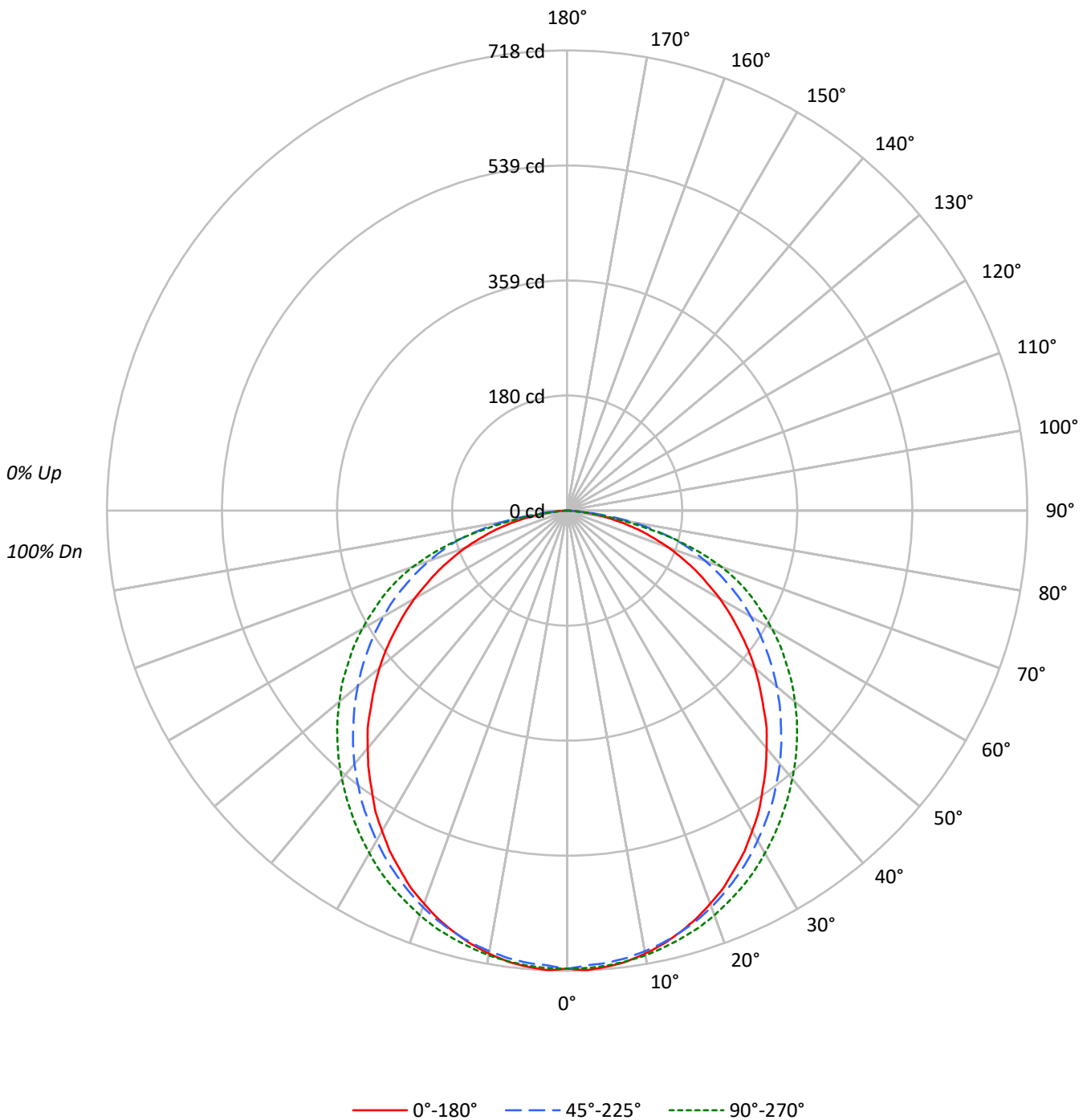
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1924	1924	1924
5°	1930	1914	1925
10°	1918	1908	1926
15°	1897	1899	1925
20°	1869	1885	1924
25°	1834	1867	1922
30°	1794	1847	1918
35°	1746	1831	1917
40°	1700	1814	1919
45°	1648	1794	1930
50°	1600	1786	1943
55°	1539	1780	1960
60°	1484	1783	1987
65°	1408	1788	2018
70°	1322	1802	2017
75°	1198	1818	1824
80°	982	1570	1297
85°	729	744	299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	3.3
10°-20°	193.2	9.3
20°-30°	291.1	14.0
30°-40°	349.3	16.8
40°-50°	364.1	17.5
50°-60°	337.1	16.2
60°-70°	272.3	13.1
70°-80°	166.0	8.0
80°-90°	34.3	1.7
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°	552.0	26.6
0°-40°	901.3	43.4
0°-60°	1602.4	77.2
0°-90°	2075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	714	712	708	714	712	68
15°	681	682	682	691	691	192
25°	618	621	629	644	647	285
35°	532	540	558	578	583	333
45°	433	446	472	498	507	335
55°	328	345	379	409	418	294
65°	221	243	281	309	317	219
75°	115	141	175	178	175	121
85°	24	35	24	13	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	714.8	714.8	714.8	714.8	714.8
2.5°	717.6	715.3	710.2	715.3	714.4
5°	714.4	712.5	708.4	713.5	712.5
7.5°	709.8	707.9	704.2	710.2	709.3
10°	701.9	701.0	698.2	705.1	704.7
12.5°	692.6	692.2	690.8	698.7	698.2
15°	681.1	681.5	681.5	690.8	690.8
17.5°	668.1	669.0	670.9	681.1	682.5
20°	652.8	654.7	658.4	670.0	671.8
22.5°	637.1	638.5	644.1	657.9	659.8
25°	617.7	621.4	628.8	644.5	647.3
27.5°	599.2	602.4	612.6	628.8	633.4
30°	577.4	582.5	594.5	612.1	617.2
32.5°	556.6	562.2	576.0	596.4	601.0
35°	531.6	540.0	557.5	577.9	583.4
37.5°	509.0	516.8	536.7	558.9	565.4
40°	484.0	493.7	516.4	540.0	546.4
42.5°	460.8	470.1	494.6	518.7	527.5
45°	433.1	446.0	471.5	497.8	507.1
47.5°	407.6	420.6	449.7	478.0	486.3
50°	382.2	396.1	426.6	455.7	464.1
52.5°	355.8	370.6	403.5	432.6	442.3
55°	328.0	345.2	379.4	409.0	417.8
57.5°	301.7	319.3	355.8	385.9	394.7
60°	275.8	293.8	331.3	360.0	369.2
62.5°	247.1	268.4	307.2	335.4	342.4
65°	221.2	242.9	280.8	309.1	316.9
67.5°	193.9	217.5	255.4	281.3	288.7
70°	168.0	192.5	229.0	253.1	256.3
72.5°	140.2	165.2	202.2	217.5	217.5
75°	115.2	140.7	174.9	177.7	175.4
77.5°	87.9	116.1	138.3	132.8	127.2
80°	63.4	91.1	101.3	91.1	83.7
82.5°	42.6	66.2	61.1	48.6	43.0
85°	23.6	35.2	24.1	13.4	9.7
87.5°	8.8	7.9	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)