

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: P260475

Luminaire Tested: **22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2572.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

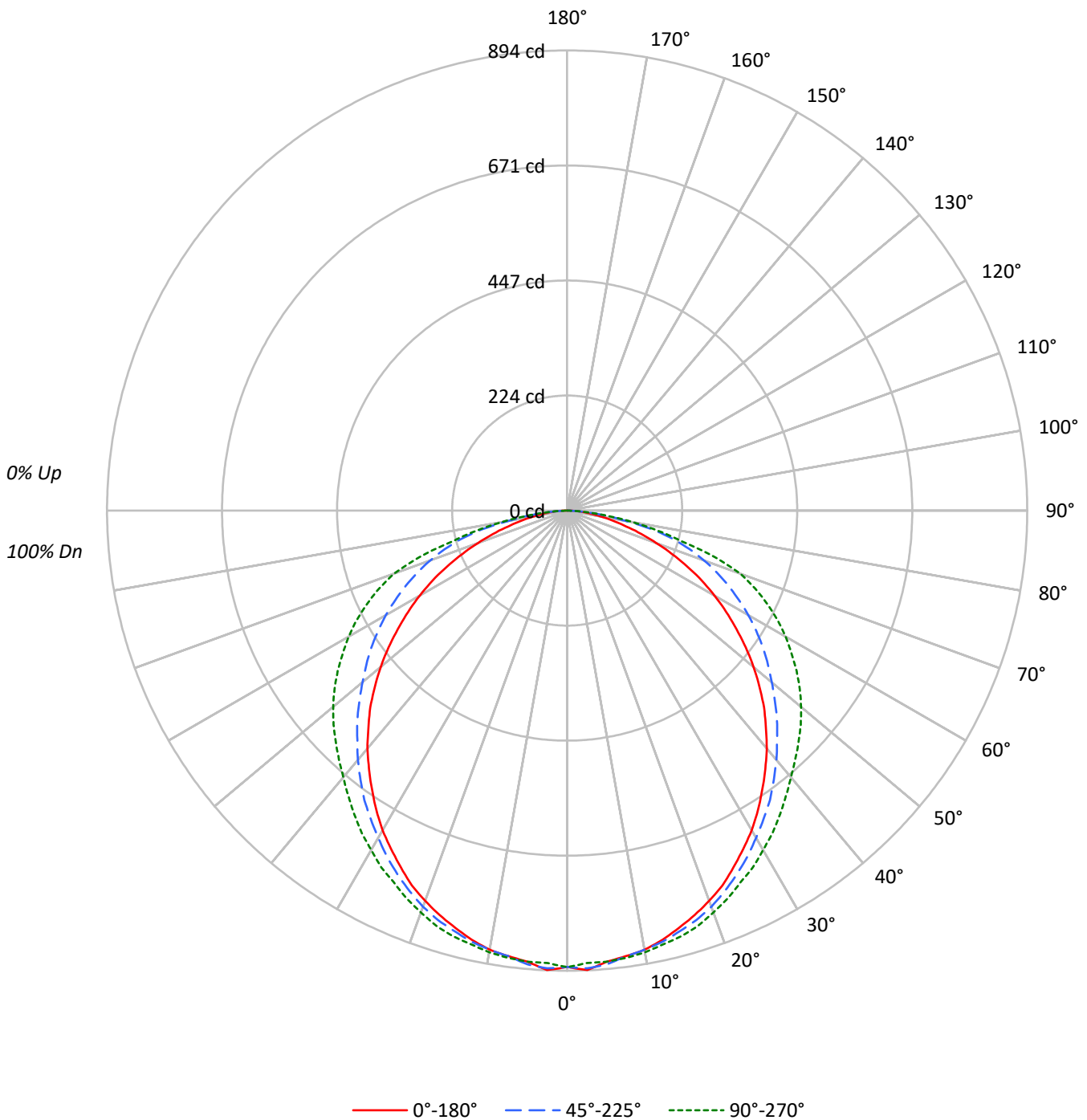
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	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	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2386	2386	2386
5°	2377	2391	2377
10°	2367	2367	2381
15°	2338	2357	2385
20°	2311	2345	2379
25°	2271	2316	2366
30°	2229	2281	2366
35°	2172	2256	2367
40°	2120	2222	2376
45°	2058	2194	2420
50°	1980	2172	2484
55°	1885	2180	2553
60°	1779	2190	2637
65°	1641	2202	2732
70°	1454	2227	2814
75°	1234	2221	2398
80°	1024	1787	1998
85°	889	1204	1152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	3.3
10°-20°	239.0	9.3
20°-30°	359.5	14.0
30°-40°	430.8	16.8
40°-50°	449.3	17.5
50°-60°	418.3	16.3
60°-70°	339.7	13.2
70°-80°	204.7	8.0
80°-90°	46.9	1.8
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°	682.3	26.5
0°-40°	1113.1	43.3
0°-60°	1980.7	77.0
0°-90°	2572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	880	880	885	887	880	84
15°	839	843	846	851	856	237
25°	765	770	780	790	797	352
35°	661	670	687	707	721	414
45°	541	551	576	614	636	416
55°	402	419	465	515	544	359
65°	258	285	346	400	429	255
75°	119	158	214	227	231	128
85°	29	36	39	37	37	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.7	886.7	886.7	886.7	886.7
2.5°	893.5	891.8	890.1	885.0	879.9
5°	879.9	879.9	885.0	886.7	879.9
7.5°	873.2	873.2	873.2	879.9	876.6
10°	866.4	866.4	866.4	871.5	871.5
12.5°	854.5	856.2	857.9	859.6	863.0
15°	839.3	842.6	846.0	851.1	856.2
17.5°	824.0	827.4	834.2	839.3	846.0
20°	807.0	810.4	818.9	824.0	830.8
22.5°	788.4	790.1	800.3	807.0	815.5
25°	764.7	769.7	779.9	790.1	796.9
27.5°	740.9	746.0	757.9	771.4	781.6
30°	717.2	722.3	734.1	751.1	761.3
32.5°	690.1	696.8	710.4	730.7	742.6
35°	661.2	669.7	686.7	707.0	720.6
37.5°	632.4	640.9	659.5	685.0	698.5
40°	603.6	612.1	632.4	659.5	676.5
42.5°	571.4	581.5	603.6	635.8	656.1
45°	540.9	551.0	576.5	613.8	635.8
47.5°	506.9	518.8	547.6	590.0	615.5
50°	473.0	486.6	518.8	566.3	593.4
52.5°	437.4	452.7	491.7	540.9	569.7
55°	401.8	418.8	464.6	515.4	544.2
57.5°	366.2	384.9	435.7	488.3	517.1
60°	330.6	351.0	406.9	461.2	490.0
62.5°	295.0	317.1	376.4	430.6	461.2
65°	257.7	284.8	345.9	400.1	429.0
67.5°	220.4	252.6	315.4	367.9	395.0
70°	184.8	220.4	283.1	332.3	357.7
72.5°	150.9	188.2	249.2	291.6	301.8
75°	118.7	157.7	213.6	227.2	230.6
77.5°	91.6	127.2	169.5	172.9	181.4
80°	66.1	96.6	115.3	125.5	128.9
82.5°	45.8	66.1	76.3	78.0	79.7
85°	28.8	35.6	39.0	37.3	37.3
87.5°	15.3	13.6	11.9	8.5	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)