

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: P259026

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2371.0 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

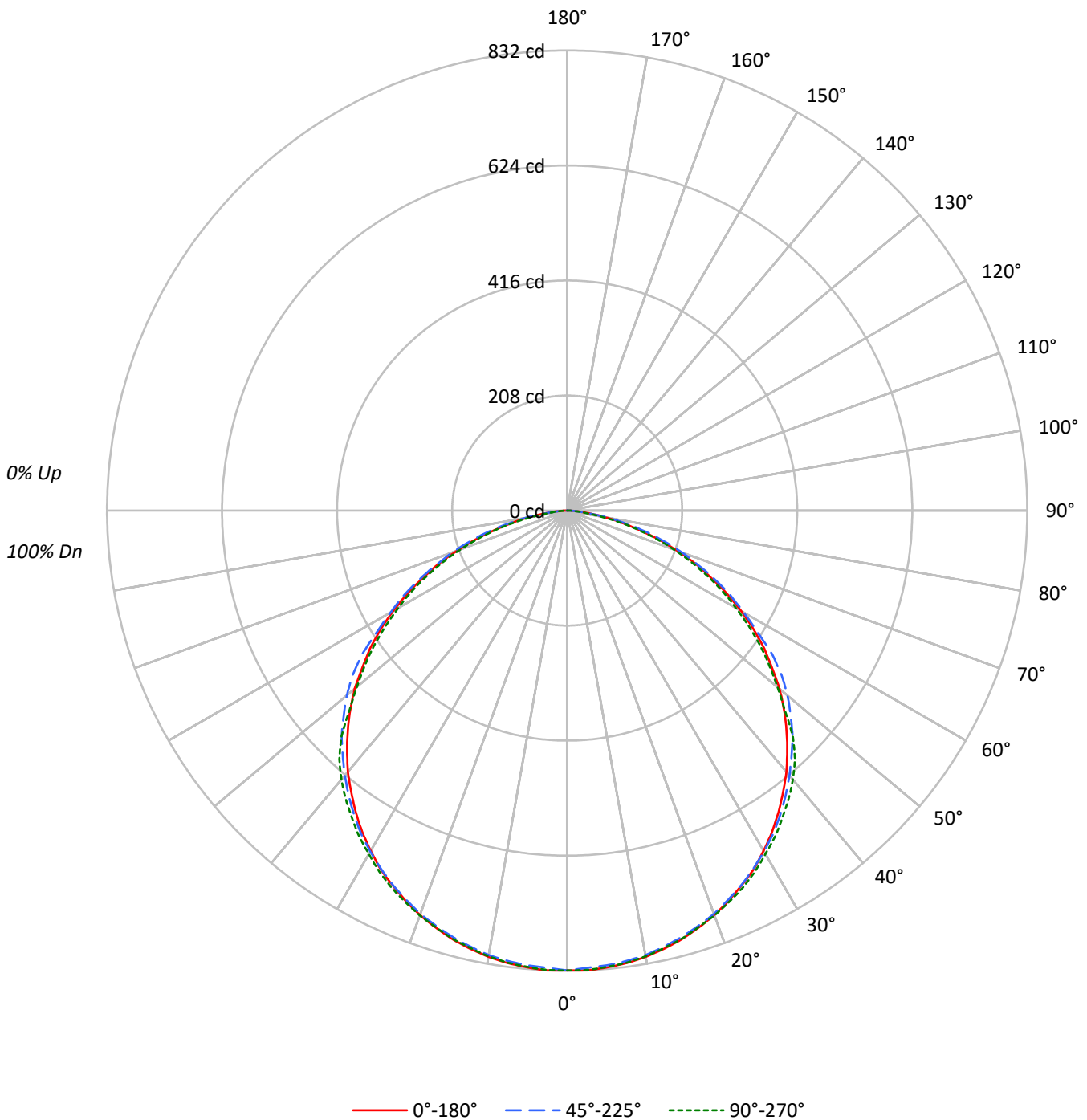
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59					59			
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44					44			
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2238	2238	2238
5°	2240	2229	2238
10°	2238	2230	2236
15°	2235	2224	2233
20°	2229	2222	2231
25°	2219	2216	2233
30°	2207	2211	2228
35°	2188	2206	2229
40°	2166	2196	2231
45°	2135	2194	2197
50°	2099	2177	2077
55°	2041	2121	2001
60°	1955	1984	1897
65°	1831	1880	1781
70°	1666	1733	1611
75°	1390	1519	1366
80°	1102	1162	947
85°	716	621	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	3.3
10°-20°	226.1	9.5
20°-30°	345.1	14.6
30°-40°	420.8	17.7
40°-50°	440.6	18.6
50°-60°	392.0	16.5
60°-70°	289.2	12.2
70°-80°	149.4	6.3
80°-90°	29.0	1.2
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°	649.9	27.4
0°-40°	1070.7	45.2
0°-60°	1903.3	80.3
0°-90°	2371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	829	828	825	828	828	79
15°	802	801	798	801	801	226
25°	747	747	746	752	752	345
35°	666	667	672	679	678	417
45°	561	565	576	582	577	433
55°	435	444	452	433	427	388
65°	288	308	295	285	280	285
75°	134	148	146	134	131	145
85°	23	26	20	18	18	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	831.5	831.5	831.5	831.5	831.5
2.5°	832.3	831.5	827.7	831.5	831.5
5°	829.2	828.4	825.3	828.4	828.4
7.5°	825.3	824.6	821.5	824.6	824.6
10°	819.2	818.4	816.1	819.2	818.4
12.5°	811.4	811.4	807.6	811.4	809.9
15°	802.2	801.4	798.3	801.4	801.4
17.5°	790.6	789.8	787.5	791.3	789.8
20°	778.2	777.4	775.9	779.7	779.0
22.5°	763.5	763.5	761.2	765.8	765.8
25°	747.3	747.3	746.5	751.9	751.9
27.5°	731.1	729.5	729.5	734.9	735.7
30°	710.2	710.2	711.7	717.9	717.1
32.5°	689.3	690.1	693.2	698.6	699.4
35°	666.1	666.9	671.6	679.3	678.5
37.5°	641.4	643.7	649.1	657.6	657.6
40°	616.7	618.2	625.2	634.5	635.2
42.5°	588.9	592.7	600.5	611.3	609.7
45°	561.0	564.9	576.5	581.9	577.3
47.5°	531.7	536.3	547.9	548.7	533.2
50°	501.5	506.9	520.1	504.6	496.1
52.5°	466.8	476.8	488.4	466.8	461.4
55°	435.1	444.4	452.1	432.8	426.6
57.5°	399.5	411.9	406.5	397.2	389.5
60°	363.2	376.3	368.6	359.3	352.4
62.5°	326.1	340.8	333.1	323.8	317.6
65°	287.5	307.6	295.2	285.2	279.7
67.5°	251.2	270.5	255.8	248.1	242.7
70°	211.7	228.0	220.2	210.2	204.8
72.5°	173.1	185.5	183.2	172.3	168.5
75°	133.7	147.6	146.1	134.5	131.4
77.5°	100.5	113.6	109.0	99.7	95.8
80°	71.1	79.6	75.0	64.1	61.1
82.5°	43.3	50.2	42.5	36.3	33.2
85°	23.2	25.5	20.1	18.5	17.8
87.5°	8.5	8.5	8.5	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)