

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: P260459

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260459
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-LD5-24-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1868.0 lumens
Efficiency: N/A
Efficacy: 103.5 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

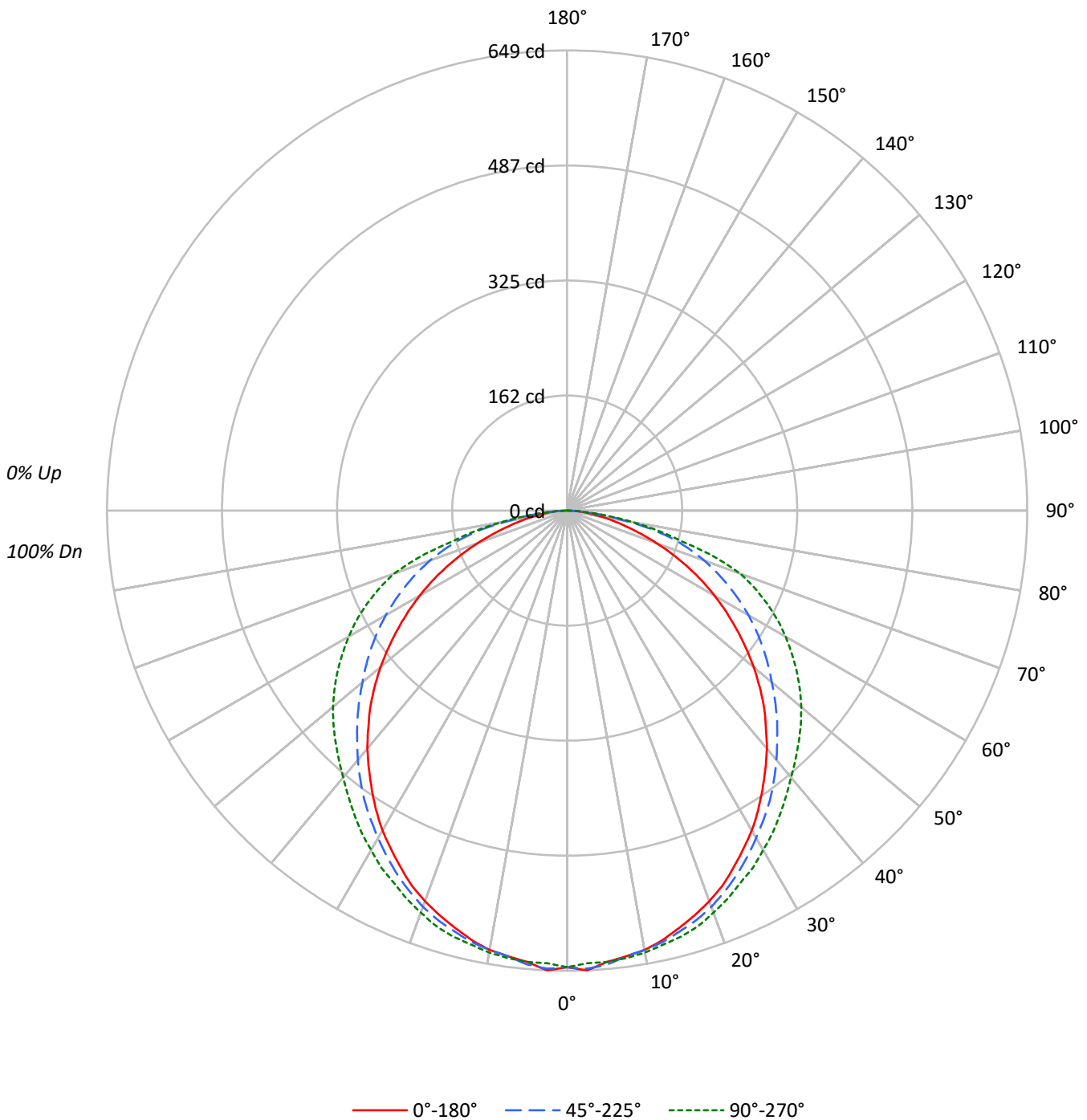
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1733	1733	1733
5°	1726	1736	1726
10°	1719	1719	1729
15°	1698	1712	1733
20°	1678	1703	1728
25°	1649	1682	1719
30°	1619	1657	1718
35°	1577	1638	1719
40°	1540	1613	1726
45°	1495	1593	1757
50°	1438	1577	1804
55°	1369	1583	1855
60°	1292	1590	1915
65°	1192	1599	1983
70°	1056	1618	2044
75°	896	1614	1742
80°	744	1297	1450
85°	645	874	837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	3.3
10°-20°	173.6	9.3
20°-30°	261.1	14.0
30°-40°	312.9	16.8
40°-50°	326.3	17.5
50°-60°	303.8	16.3
60°-70°	246.7	13.2
70°-80°	148.7	8.0
80°-90°	34.1	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°	495.5	26.5
0°-40°	808.4	43.3
0°-60°	1438.6	77.0
0°-90°	1868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	639	639	643	644	639	61
15°	610	612	614	618	622	172
25°	555	559	566	574	579	256
35°	480	486	499	514	523	301
45°	393	400	419	446	462	302
55°	292	304	337	374	395	261
65°	187	207	251	291	312	185
75°	86	114	155	165	168	93
85°	21	26	28	27	27	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	644.0	644.0	644.0	644.0	644.0
2.5°	648.9	647.7	646.5	642.8	639.1
5°	639.1	639.1	642.8	644.0	639.1
7.5°	634.2	634.2	634.2	639.1	636.6
10°	629.2	629.2	629.2	632.9	632.9
12.5°	620.6	621.9	623.1	624.3	626.8
15°	609.5	612.0	614.5	618.2	621.9
17.5°	598.5	600.9	605.8	609.5	614.5
20°	586.1	588.6	594.8	598.5	603.4
22.5°	572.6	573.8	581.2	586.1	592.3
25°	555.4	559.1	566.4	573.8	578.8
27.5°	538.1	541.8	550.4	560.3	567.7
30°	520.9	524.6	533.2	545.5	552.9
32.5°	501.2	506.1	516.0	530.7	539.3
35°	480.2	486.4	498.7	513.5	523.3
37.5°	459.3	465.5	479.0	497.5	507.3
40°	438.4	444.5	459.3	479.0	491.3
42.5°	415.0	422.4	438.4	461.8	476.5
45°	392.8	400.2	418.7	445.8	461.8
47.5°	368.2	376.8	397.7	428.5	447.0
50°	343.6	353.4	376.8	411.3	431.0
52.5°	317.7	328.8	357.1	392.8	413.7
55°	291.8	304.2	337.4	374.3	395.3
57.5°	266.0	279.5	316.5	354.6	375.6
60°	240.1	254.9	295.5	334.9	355.9
62.5°	214.3	230.3	273.4	312.8	334.9
65°	187.2	206.9	251.2	290.6	311.5
67.5°	160.1	183.5	229.0	267.2	286.9
70°	134.2	160.1	205.6	241.4	259.8
72.5°	109.6	136.7	181.0	211.8	219.2
75°	86.2	114.5	155.2	165.0	167.5
77.5°	66.5	92.4	123.1	125.6	131.8
80°	48.0	70.2	83.7	91.1	93.6
82.5°	33.2	48.0	55.4	56.6	57.9
85°	20.9	25.9	28.3	27.1	27.1
87.5°	11.1	9.9	8.6	6.2	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)