

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: P260478

Luminaire Tested: **22CZ-LD5-34-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260478
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2640.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

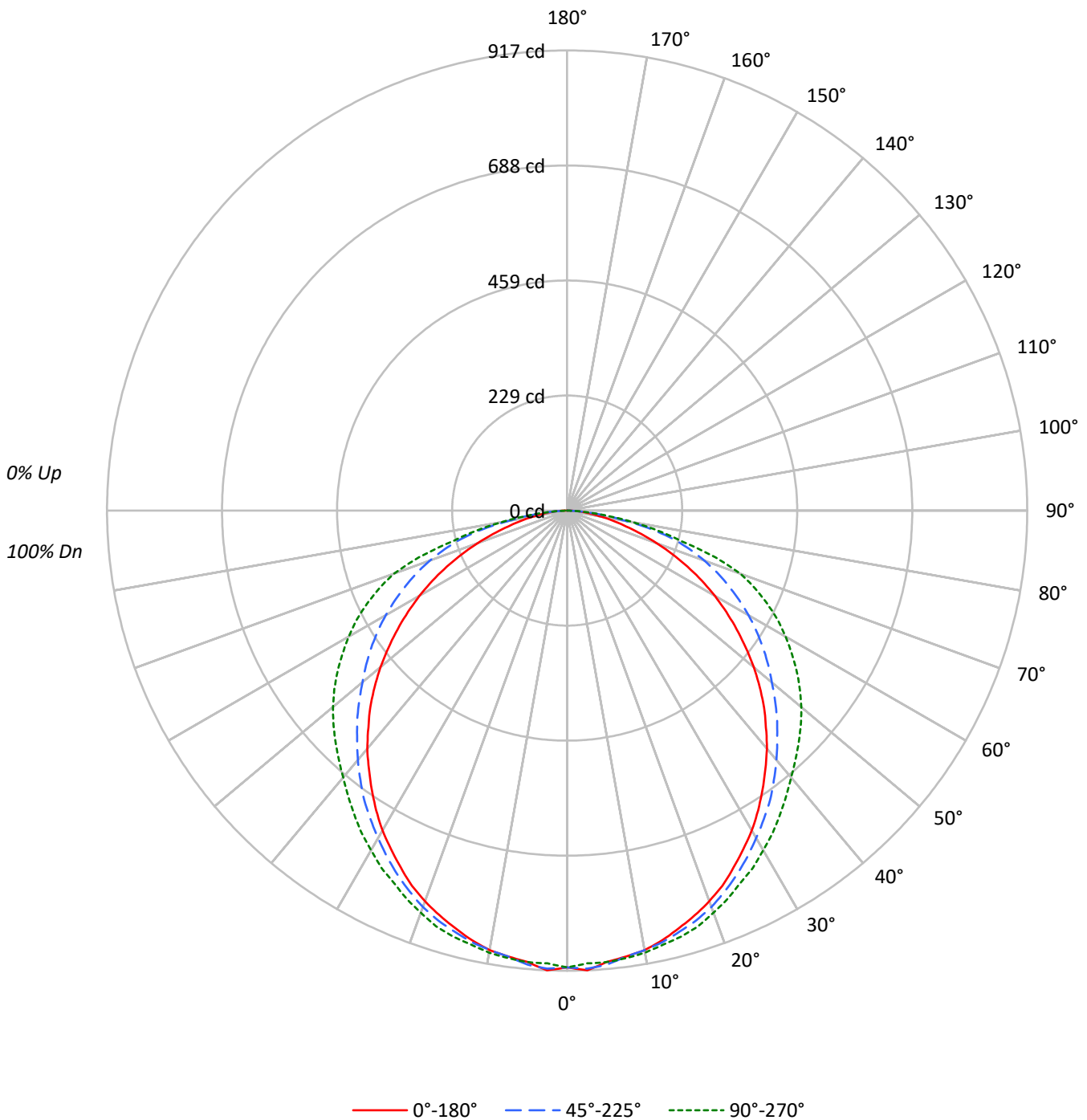
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2449	2449	2449
5°	2440	2454	2440
10°	2430	2430	2444
15°	2400	2419	2448
20°	2372	2407	2442
25°	2330	2377	2428
30°	2287	2341	2428
35°	2230	2315	2430
40°	2176	2280	2439
45°	2113	2252	2484
50°	2033	2229	2550
55°	1935	2237	2621
60°	1827	2248	2707
65°	1684	2260	2804
70°	1493	2286	2889
75°	1266	2280	2461
80°	1052	1833	2050
85°	914	1235	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	3.3
10°-20°	245.3	9.3
20°-30°	369.0	14.0
30°-40°	442.2	16.8
40°-50°	461.2	17.5
50°-60°	429.4	16.3
60°-70°	348.6	13.2
70°-80°	210.1	8.0
80°-90°	48.2	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°	700.3	26.5
0°-40°	1142.5	43.3
0°-60°	2033.1	77.0
0°-90°	2640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	903	903	908	910	903	86
15°	861	865	868	874	879	243
25°	785	790	800	811	818	362
35°	679	687	705	726	740	425
45°	555	566	592	630	653	427
55°	412	430	477	529	559	369
65°	264	292	355	411	440	262
75°	122	162	219	233	237	132
85°	30	36	40	38	38	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.2	910.2	910.2	910.2	910.2
2.5°	917.1	915.4	913.7	908.4	903.2
5°	903.2	903.2	908.4	910.2	903.2
7.5°	896.3	896.3	896.3	903.2	899.7
10°	889.3	889.3	889.3	894.5	894.5
12.5°	877.1	878.8	880.6	882.3	885.8
15°	861.4	864.9	868.4	873.6	878.8
17.5°	845.8	849.3	856.2	861.4	868.4
20°	828.4	831.9	840.6	845.8	852.7
22.5°	809.2	811.0	821.4	828.4	837.1
25°	784.9	790.1	800.5	811.0	817.9
27.5°	760.5	765.7	777.9	791.8	802.3
30°	736.1	741.4	753.5	770.9	781.4
32.5°	708.3	715.3	729.2	750.1	762.2
35°	678.7	687.4	704.8	725.7	739.6
37.5°	649.1	657.8	677.0	703.1	717.0
40°	619.5	628.2	649.1	677.0	694.4
42.5°	586.5	596.9	619.5	652.6	673.5
45°	555.2	565.6	591.7	630.0	652.6
47.5°	520.3	532.5	562.1	605.6	631.7
50°	485.5	499.5	532.5	581.3	609.1
52.5°	449.0	464.7	504.7	555.2	584.7
55°	412.4	429.9	476.8	529.0	558.6
57.5°	375.9	395.0	447.3	501.2	530.8
60°	339.4	360.2	417.7	473.4	502.9
62.5°	302.8	325.4	386.3	442.0	473.4
65°	264.5	292.4	355.0	410.7	440.3
67.5°	226.2	259.3	323.7	377.6	405.5
70°	189.7	226.2	290.6	341.1	367.2
72.5°	154.9	193.2	255.8	299.3	309.8
75°	121.8	161.8	219.3	233.2	236.7
77.5°	94.0	130.5	174.0	177.5	186.2
80°	67.9	99.2	118.3	128.8	132.3
82.5°	47.0	67.9	78.3	80.1	81.8
85°	29.6	36.5	40.0	38.3	38.3
87.5°	15.7	13.9	12.2	8.7	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)