

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: P259469

Luminaire Tested: **22CZ-LD5-34-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-S-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3644.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

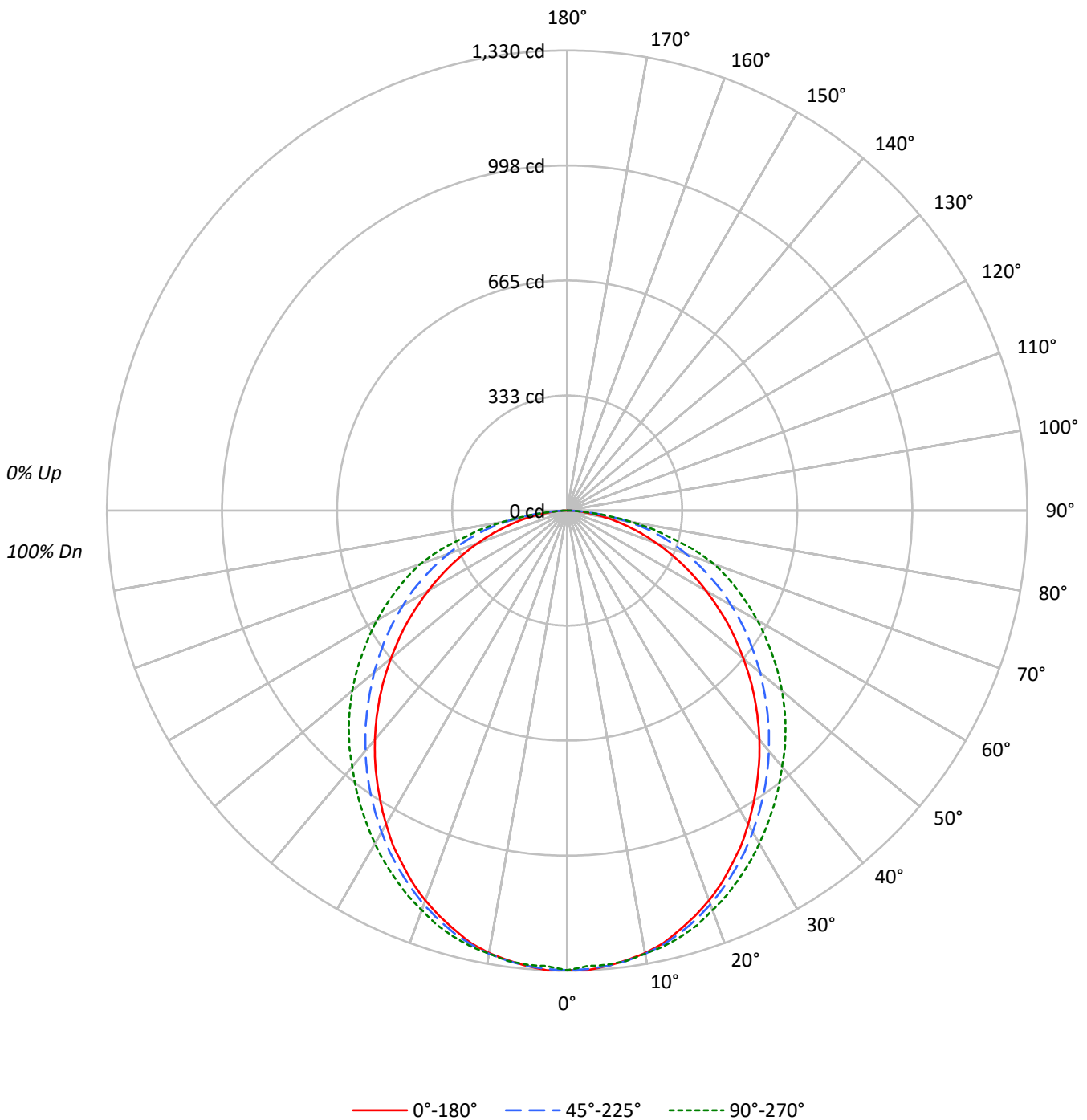
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58					58			
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3575	3575	3575
5°	3570	3570	3560
10°	3549	3553	3553
15°	3496	3521	3550
20°	3433	3468	3519
25°	3347	3404	3487
30°	3252	3334	3453
35°	3145	3260	3421
40°	3037	3185	3394
45°	2917	3111	3397
50°	2784	3048	3393
55°	2652	2997	3392
60°	2496	2948	3419
65°	2341	2909	3466
70°	2162	2878	3553
75°	1947	2857	3294
80°	1709	2658	2875
85°	1405	2001	1785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	3.4
10°-20°	356.4	9.8
20°-30°	529.3	14.5
30°-40°	623.0	17.1
40°-50°	635.2	17.4
50°-60°	572.8	15.7
60°-70°	451.2	12.4
70°-80°	278.3	7.6
80°-90°	72.3	2.0
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°	1011.1	27.7
0°-40°	1634.1	44.8
0°-60°	2842.2	78.0
0°-90°	3644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1322	1323	1322	1320	1318	125
15°	1255	1260	1264	1271	1274	354
25°	1127	1134	1146	1166	1174	519
35°	957	968	992	1024	1041	599
45°	767	779	817	866	893	591
55°	565	585	639	697	723	504
65°	368	394	457	515	544	364
75°	187	219	275	306	317	200
85°	46	58	65	61	58	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1328.5	1328.5	1328.5	1328.5	1328.5
2.5°	1330.2	1330.2	1326.7	1323.2	1318.0
5°	1321.5	1323.2	1321.5	1319.7	1318.0
7.5°	1311.0	1312.7	1312.7	1312.7	1312.7
10°	1298.7	1300.4	1300.4	1300.4	1300.4
12.5°	1281.2	1282.9	1284.7	1286.4	1289.9
15°	1254.9	1260.2	1263.7	1270.7	1274.2
17.5°	1228.7	1233.9	1239.2	1247.9	1254.9
20°	1198.9	1202.4	1211.2	1221.7	1228.7
22.5°	1165.7	1170.9	1179.7	1193.7	1204.2
25°	1127.2	1134.2	1146.4	1165.7	1174.4
27.5°	1090.4	1095.7	1111.4	1132.4	1144.7
30°	1046.7	1053.7	1072.9	1099.2	1111.4
32.5°	1002.9	1011.7	1032.7	1062.4	1076.4
35°	957.4	967.9	992.4	1023.9	1041.4
37.5°	911.9	922.4	950.4	985.4	1004.7
40°	864.6	875.1	906.6	945.1	966.1
42.5°	815.6	827.9	862.9	906.6	931.1
45°	766.6	778.9	817.4	866.4	892.6
47.5°	715.9	729.9	771.9	826.1	852.4
50°	665.1	680.9	728.1	784.1	810.4
52.5°	614.3	631.8	682.6	740.4	768.4
55°	565.3	584.6	638.8	696.6	722.9
57.5°	512.8	535.6	593.3	649.3	679.1
60°	463.8	488.3	547.8	603.8	635.3
62.5°	414.8	441.1	504.1	560.1	589.8
65°	367.6	393.8	456.8	514.6	544.3
67.5°	320.3	350.1	411.3	469.1	498.8
70°	274.8	306.3	365.8	421.8	451.6
72.5°	231.0	262.5	322.0	374.6	392.1
75°	187.3	218.8	274.8	306.3	316.8
77.5°	147.0	176.8	225.8	245.0	259.0
80°	110.3	136.5	171.5	183.8	185.5
82.5°	75.3	98.0	119.0	120.8	119.0
85°	45.5	57.8	64.8	61.3	57.8
87.5°	21.0	22.8	21.0	14.0	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)