

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: P277014

Luminaire Tested: **24CZ2-50-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3309.1 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

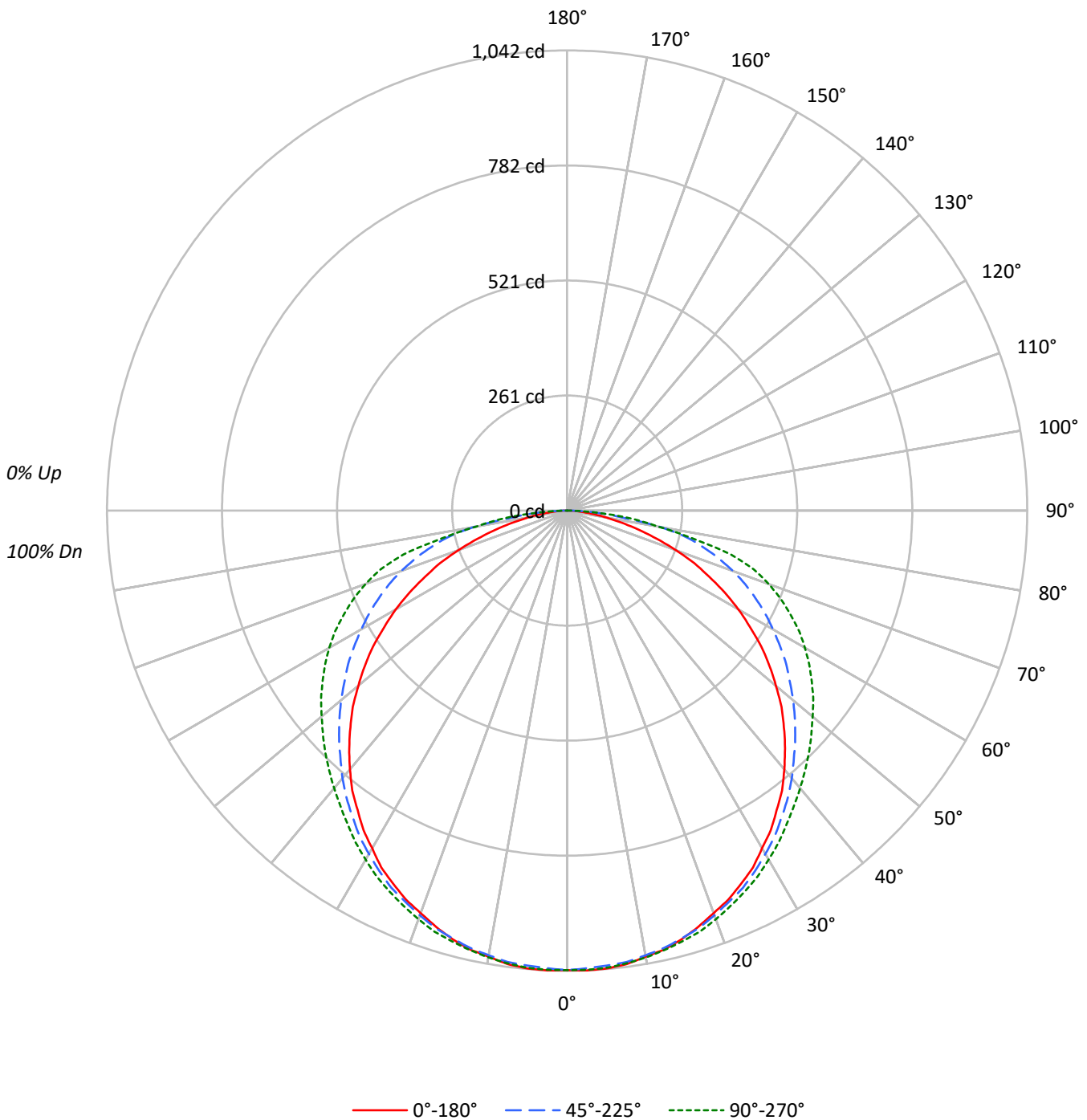
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1400	1400	1400
5°	1405	1397	1403
10°	1401	1397	1404
15°	1399	1397	1406
20°	1389	1396	1410
25°	1384	1399	1413
30°	1372	1395	1418
35°	1359	1391	1423
40°	1343	1389	1441
45°	1321	1390	1474
50°	1292	1398	1519
55°	1259	1421	1586
60°	1206	1449	1674
65°	1129	1500	1777
70°	1027	1569	1911
75°	870	1655	1997
80°	687	1666	1616
85°	506	1267	1419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	3.0
10°-20°	284.1	8.6
20°-30°	434.4	13.1
30°-40°	531.1	16.0
40°-50°	566.0	17.1
50°-60°	541.2	16.4
60°-70°	458.5	13.9
70°-80°	308.1	9.3
80°-90°	86.9	2.6
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°	817.2	24.7
0°-40°	1348.3	40.7
0°-60°	2455.6	74.2
0°-90°	3309.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3309.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1041	1041	1041	1041	1041	
5°	1041	1039	1034	1039	1039	99
15°	1004	1004	1003	1011	1009	283
25°	932	936	942	950	952	430
35°	827	834	847	863	867	518
45°	694	706	730	762	775	536
55°	537	556	606	653	676	478
65°	354	391	471	533	558	352
75°	167	228	318	373	384	179
85°	33	67	82	89	92	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.6	1040.6	1040.6	1040.6	1040.6
2.5°	1042.3	1042.3	1037.3	1040.6	1040.6
5°	1040.6	1039.0	1034.1	1039.0	1039.0
7.5°	1035.7	1034.1	1030.8	1035.7	1034.1
10°	1025.8	1025.8	1022.6	1027.5	1027.5
12.5°	1017.6	1016.0	1014.4	1020.9	1019.3
15°	1004.5	1004.5	1002.9	1011.1	1009.4
17.5°	988.1	989.7	991.4	997.9	999.6
20°	970.0	973.3	975.0	984.8	984.8
22.5°	953.6	955.3	958.6	968.4	968.4
25°	932.3	935.6	942.1	950.3	952.0
27.5°	911.0	912.6	920.8	932.3	933.9
30°	883.0	888.0	897.8	911.0	912.6
32.5°	858.4	863.4	874.8	888.0	891.3
35°	827.2	833.8	846.9	863.4	866.6
37.5°	799.3	804.3	820.7	838.7	843.7
40°	764.9	774.7	791.1	812.5	820.7
42.5°	730.4	740.3	759.9	787.9	797.7
45°	694.3	705.8	730.4	761.6	774.7
47.5°	658.2	671.3	699.2	735.3	750.1
50°	617.2	633.6	668.0	709.1	725.5
52.5°	577.8	597.5	635.2	681.2	702.5
55°	536.7	556.4	605.7	653.3	676.2
57.5°	490.8	517.0	571.2	625.4	650.0
60°	448.1	472.7	538.4	597.5	622.1
62.5°	402.1	435.0	505.5	567.9	592.5
65°	354.5	390.6	471.1	533.4	558.1
67.5°	311.9	351.3	436.6	499.0	523.6
70°	261.0	310.2	398.8	461.2	485.8
72.5°	213.4	267.5	359.5	420.2	443.2
75°	167.4	228.1	318.4	372.6	384.1
77.5°	124.7	188.8	275.7	298.7	290.5
80°	88.6	151.0	215.0	203.5	208.5
82.5°	57.4	114.9	132.9	151.0	155.9
85°	32.8	67.3	82.1	88.6	91.9
87.5°	14.8	24.6	32.8	32.8	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)