

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: P276804

Luminaire Tested: **24CZ2-50-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276804
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-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3342.0 lumens
Efficiency: N/A
Efficacy: 82.3 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

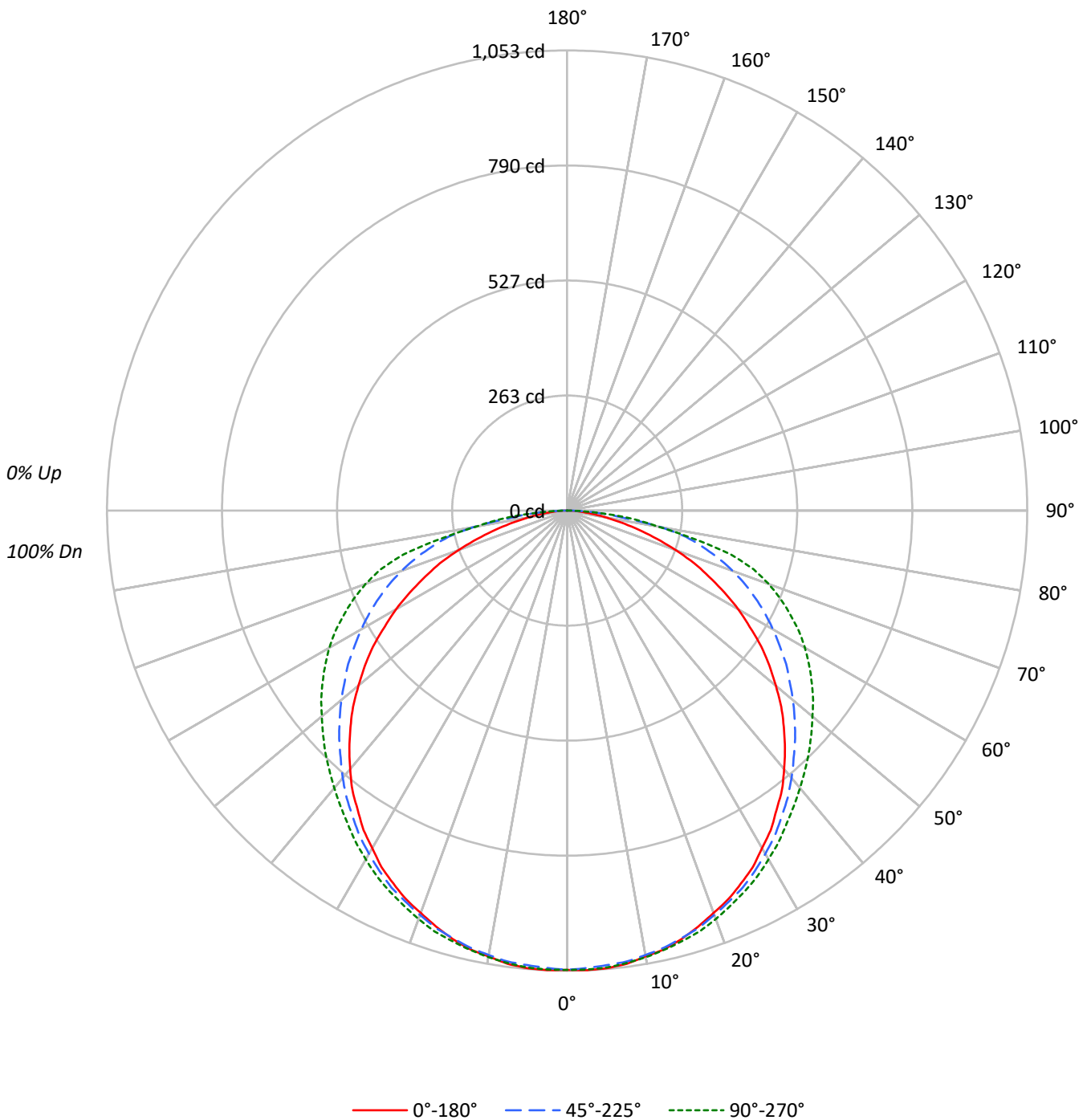
Input Watts (W): 40.624353
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	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°	1414	1414	1414
5°	1420	1410	1417
10°	1415	1411	1418
15°	1413	1411	1420
20°	1403	1410	1424
25°	1398	1413	1427
30°	1386	1409	1432
35°	1372	1405	1438
40°	1357	1403	1456
45°	1334	1404	1489
50°	1305	1412	1534
55°	1272	1435	1602
60°	1218	1463	1691
65°	1140	1515	1794
70°	1037	1585	1930
75°	879	1672	2017
80°	693	1683	1631
85°	513	1280	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.0
10°-20°	286.9	8.6
20°-30°	438.8	13.1
30°-40°	536.4	16.0
40°-50°	571.7	17.1
50°-60°	546.6	16.4
60°-70°	463.0	13.9
70°-80°	311.2	9.3
80°-90°	87.8	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°	825.4	24.7
0°-40°	1361.7	40.7
0°-60°	2480.0	74.2
0°-90°	3342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1051	1049	1044	1049	1049	100
15°	1014	1014	1013	1021	1020	286
25°	942	945	952	960	961	434
35°	836	842	855	872	875	523
45°	701	713	738	769	782	541
55°	542	562	612	660	683	483
65°	358	394	476	539	564	355
75°	169	230	322	376	388	181
85°	33	68	83	90	93	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.0	1051.0	1051.0	1051.0	1051.0
2.5°	1052.6	1052.6	1047.6	1051.0	1051.0
5°	1051.0	1049.3	1044.3	1049.3	1049.3
7.5°	1046.0	1044.3	1041.0	1046.0	1044.3
10°	1036.0	1036.0	1032.7	1037.7	1037.7
12.5°	1027.8	1026.1	1024.4	1031.1	1029.4
15°	1014.5	1014.5	1012.8	1021.1	1019.5
17.5°	997.9	999.6	1001.2	1007.9	1009.5
20°	979.7	983.0	984.7	994.6	994.6
22.5°	963.1	964.8	968.1	978.0	978.0
25°	941.6	944.9	951.5	959.8	961.4
27.5°	920.0	921.7	930.0	941.6	943.2
30°	891.8	896.8	906.7	920.0	921.7
32.5°	867.0	871.9	883.5	896.8	900.1
35°	835.5	842.1	855.4	871.9	875.3
37.5°	807.3	812.3	828.8	847.1	852.0
40°	772.5	782.4	799.0	820.5	828.8
42.5°	737.7	747.6	767.5	795.7	805.6
45°	701.2	712.8	737.7	769.2	782.4
47.5°	664.7	678.0	706.2	742.6	757.6
50°	623.3	639.9	674.7	716.1	732.7
52.5°	583.5	603.4	641.5	687.9	709.5
55°	542.1	562.0	611.7	659.8	683.0
57.5°	495.6	522.2	576.9	631.6	656.4
60°	452.5	477.4	543.7	603.4	628.3
62.5°	406.1	439.3	510.6	573.6	598.4
65°	358.1	394.5	475.8	538.7	563.6
67.5°	315.0	354.7	440.9	503.9	528.8
70°	263.6	313.3	402.8	465.8	490.7
72.5°	215.5	270.2	363.0	424.4	447.6
75°	169.1	230.4	321.6	376.3	387.9
77.5°	126.0	190.6	278.5	301.7	293.4
80°	89.5	152.5	217.2	205.6	210.5
82.5°	58.0	116.0	134.3	152.5	157.5
85°	33.2	68.0	82.9	89.5	92.8
87.5°	14.9	24.9	33.2	33.2	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)