

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: P276925

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276925
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: 24CZ2-50HE-RDP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3333.9 lumens
Efficiency: N/A
Efficacy: 90.8 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

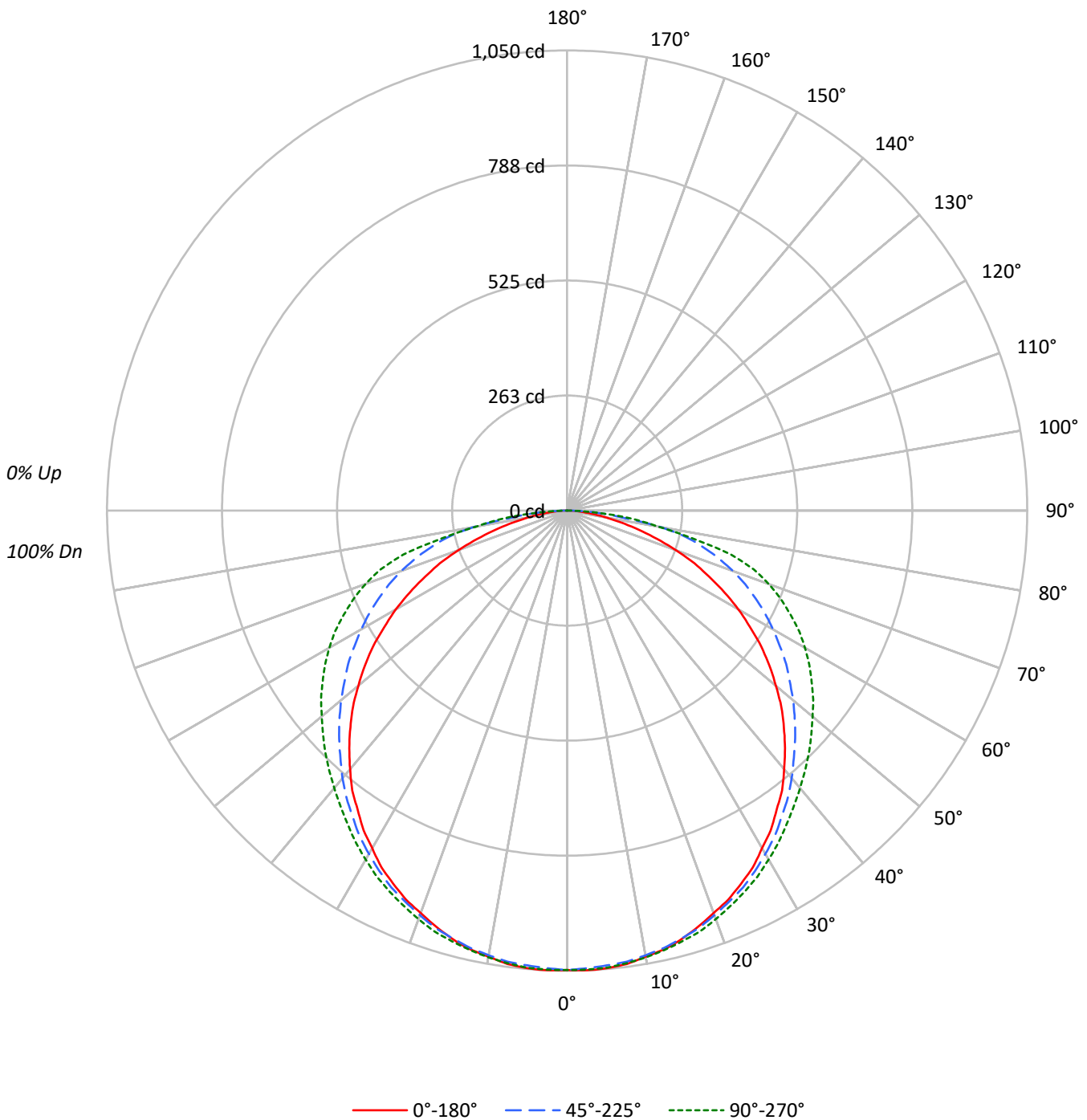
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1411	1411	1411
5°	1416	1407	1414
10°	1412	1408	1414
15°	1410	1407	1417
20°	1399	1406	1421
25°	1394	1409	1424
30°	1382	1405	1428
35°	1369	1402	1434
40°	1353	1400	1452
45°	1331	1400	1485
50°	1302	1409	1530
55°	1268	1431	1598
60°	1215	1460	1686
65°	1137	1511	1790
70°	1034	1581	1926
75°	877	1668	2012
80°	692	1678	1627
85°	511	1277	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	3.0
10°-20°	286.2	8.6
20°-30°	437.7	13.1
30°-40°	535.1	16.0
40°-50°	570.3	17.1
50°-60°	545.3	16.4
60°-70°	461.9	13.9
70°-80°	310.4	9.3
80°-90°	87.6	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°	823.4	24.7
0°-40°	1358.4	40.7
0°-60°	2474.0	74.2
0°-90°	3333.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3333.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1048	1047	1042	1047	1047	100
15°	1012	1012	1010	1019	1017	285
25°	939	943	949	958	959	433
35°	833	840	853	870	873	522
45°	700	711	736	767	780	540
55°	541	561	610	658	681	482
65°	357	394	475	537	562	355
75°	169	230	321	375	387	181
85°	33	68	83	89	93	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1048.4	1048.4	1048.4	1048.4	1048.4
2.5°	1050.1	1050.1	1045.1	1048.4	1048.4
5°	1048.4	1046.8	1041.8	1046.8	1046.8
7.5°	1043.5	1041.8	1038.5	1043.5	1041.8
10°	1033.5	1033.5	1030.2	1035.2	1035.2
12.5°	1025.3	1023.6	1022.0	1028.6	1026.9
15°	1012.0	1012.0	1010.4	1018.7	1017.0
17.5°	995.5	997.2	998.8	1005.4	1007.1
20°	977.3	980.6	982.3	992.2	992.2
22.5°	960.8	962.4	965.7	975.7	975.7
25°	939.3	942.6	949.2	957.5	959.1
27.5°	917.8	919.4	927.7	939.3	940.9
30°	889.7	894.6	904.6	917.8	919.4
32.5°	864.9	869.8	881.4	894.6	897.9
35°	833.4	840.1	853.3	869.8	873.1
37.5°	805.3	810.3	826.8	845.0	850.0
40°	770.6	780.5	797.1	818.6	826.8
42.5°	735.9	745.8	765.6	793.8	803.7
45°	699.5	711.1	735.9	767.3	780.5
47.5°	663.1	676.3	704.5	740.8	755.7
50°	621.8	638.3	673.0	714.4	730.9
52.5°	582.1	601.9	640.0	686.3	707.8
55°	540.7	560.6	610.2	658.2	681.3
57.5°	494.4	520.9	575.5	630.0	654.9
60°	451.5	476.3	542.4	601.9	626.7
62.5°	405.1	438.2	509.3	572.2	597.0
65°	357.2	393.6	474.6	537.4	562.2
67.5°	314.2	353.9	439.9	502.7	527.5
70°	262.9	312.5	401.8	464.7	489.5
72.5°	215.0	269.5	362.2	423.3	446.5
75°	168.7	229.9	320.8	375.4	387.0
77.5°	125.7	190.2	277.8	301.0	292.7
80°	89.3	152.1	216.6	205.1	210.0
82.5°	57.9	115.8	133.9	152.1	157.1
85°	33.1	67.8	82.7	89.3	92.6
87.5°	14.9	24.8	33.1	33.1	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)