

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: P276924

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276924
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-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3325.0 lumens
Efficiency: N/A
Efficacy: 90.5 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

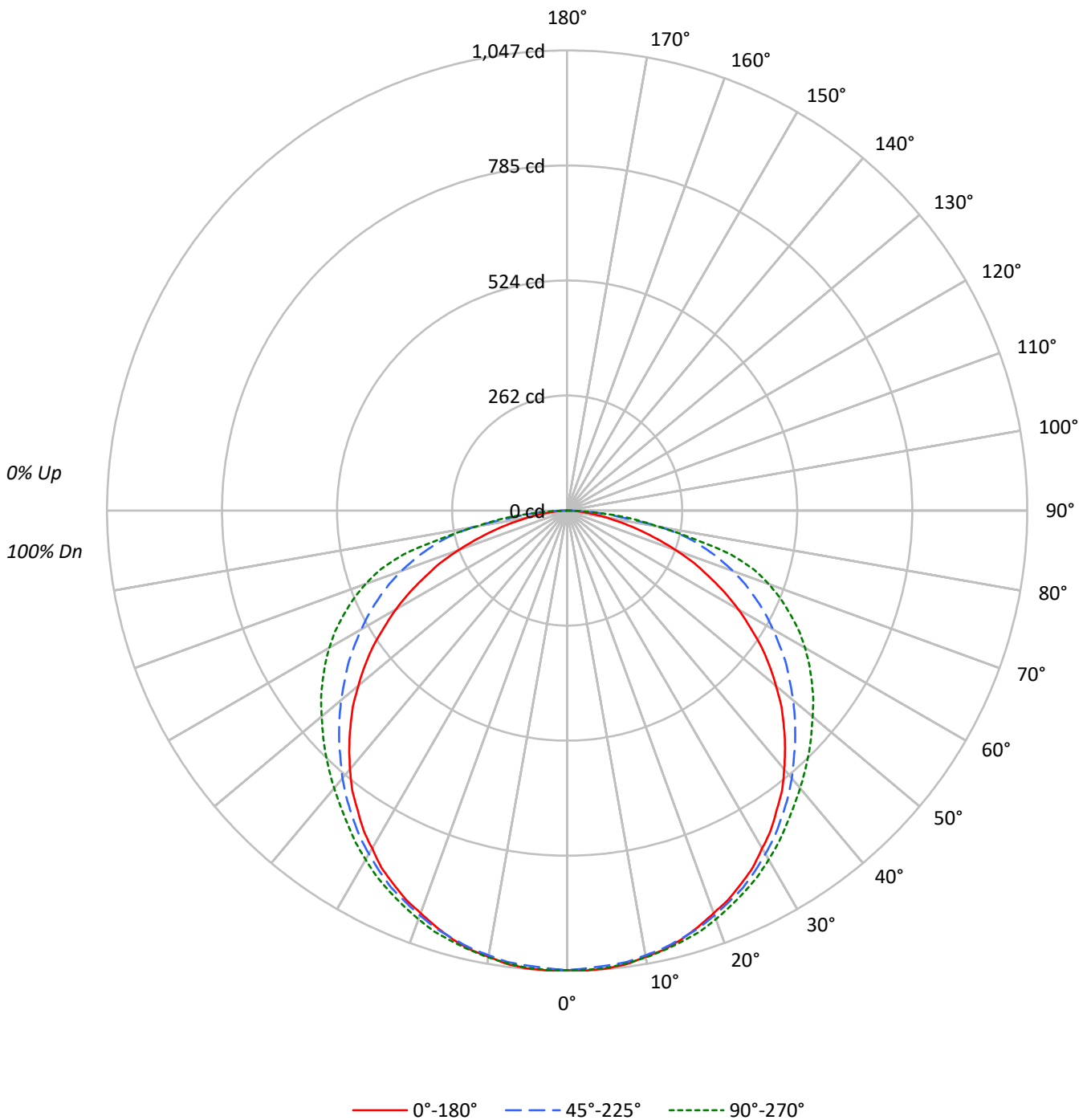
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1407	1407	1407
5°	1412	1403	1410
10°	1408	1404	1411
15°	1406	1404	1413
20°	1396	1403	1417
25°	1391	1405	1420
30°	1379	1402	1425
35°	1365	1398	1430
40°	1350	1396	1448
45°	1327	1396	1481
50°	1298	1405	1526
55°	1265	1428	1594
60°	1211	1456	1682
65°	1134	1507	1785
70°	1031	1577	1921
75°	874	1664	2006
80°	690	1674	1623
85°	509	1274	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.0
10°-20°	285.5	8.6
20°-30°	436.5	13.1
30°-40°	533.6	16.0
40°-50°	568.8	17.1
50°-60°	543.8	16.4
60°-70°	460.7	13.9
70°-80°	309.6	9.3
80°-90°	87.3	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°	821.2	24.7
0°-40°	1354.8	40.7
0°-60°	2467.4	74.2
0°-90°	3325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1046	1044	1039	1044	1044	99
15°	1009	1009	1008	1016	1014	285
25°	937	940	947	955	957	432
35°	831	838	851	868	871	521
45°	698	709	734	765	778	538
55°	539	559	609	656	680	480
65°	356	392	473	536	561	354
75°	168	229	320	374	386	180
85°	33	68	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°	1045.6	1045.6	1045.6	1045.6	1045.6
2.5°	1047.3	1047.3	1042.3	1045.6	1045.6
5°	1045.6	1044.0	1039.0	1044.0	1044.0
7.5°	1040.7	1039.0	1035.7	1040.7	1039.0
10°	1030.8	1030.8	1027.5	1032.4	1032.4
12.5°	1022.5	1020.9	1019.2	1025.8	1024.2
15°	1009.3	1009.3	1007.7	1015.9	1014.3
17.5°	992.8	994.5	996.1	1002.7	1004.4
20°	974.7	978.0	979.7	989.5	989.5
22.5°	958.2	959.9	963.2	973.1	973.1
25°	936.8	940.1	946.7	954.9	956.6
27.5°	915.3	917.0	925.2	936.8	938.4
30°	887.3	892.2	902.1	915.3	917.0
32.5°	862.6	867.5	879.0	892.2	895.5
35°	831.2	837.8	851.0	867.5	870.8
37.5°	803.2	808.1	824.6	842.8	847.7
40°	768.5	778.4	794.9	816.4	824.6
42.5°	733.9	743.8	763.6	791.6	801.5
45°	697.6	709.2	733.9	765.3	778.4
47.5°	661.3	674.5	702.6	738.9	753.7
50°	620.1	636.6	671.2	712.5	729.0
52.5°	580.5	600.3	638.3	684.4	705.9
55°	539.3	559.1	608.6	656.4	679.5
57.5°	493.1	519.5	573.9	628.4	653.1
60°	450.2	475.0	541.0	600.3	625.1
62.5°	404.1	437.1	508.0	570.6	595.4
65°	356.2	392.5	473.3	536.0	560.7
67.5°	313.4	352.9	438.7	501.4	526.1
70°	262.2	311.7	400.8	463.4	488.2
72.5°	214.4	268.8	361.2	422.2	445.3
75°	168.2	229.2	320.0	374.4	385.9
77.5°	125.3	189.7	277.1	300.2	291.9
80°	89.1	151.7	216.1	204.5	209.5
82.5°	57.7	115.4	133.6	151.7	156.7
85°	33.0	67.6	82.5	89.1	92.4
87.5°	14.8	24.7	33.0	33.0	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)