

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: P276923

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276923
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-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3292.6 lumens
Efficiency: N/A
Efficacy: 90.1 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

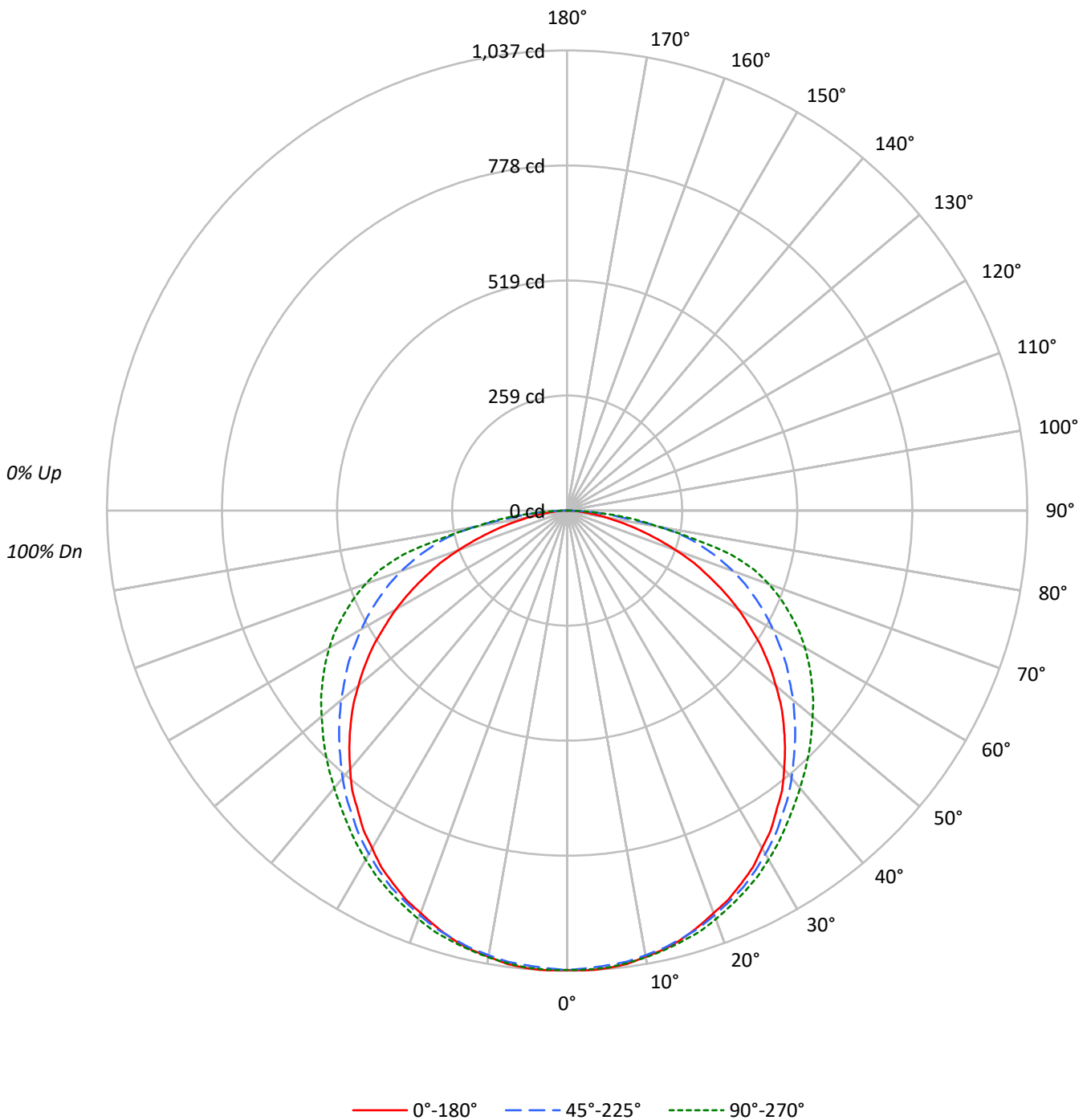
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1393	1393	1393
5°	1398	1390	1396
10°	1395	1390	1397
15°	1392	1390	1399
20°	1382	1389	1403
25°	1377	1392	1406
30°	1365	1388	1411
35°	1352	1384	1416
40°	1337	1383	1434
45°	1314	1383	1467
50°	1285	1391	1511
55°	1253	1414	1578
60°	1200	1442	1666
65°	1123	1492	1768
70°	1022	1561	1902
75°	866	1647	1987
80°	683	1657	1607
85°	505	1261	1413



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	3.0
10°-20°	282.7	8.6
20°-30°	432.3	13.1
30°-40°	528.4	16.0
40°-50°	563.2	17.1
50°-60°	538.5	16.4
60°-70°	456.2	13.9
70°-80°	306.6	9.3
80°-90°	86.5	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°	813.2	24.7
0°-40°	1341.6	40.7
0°-60°	2443.3	74.2
0°-90°	3292.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1035	1034	1029	1034	1034	98
15°	1000	1000	998	1006	1004	282
25°	928	931	937	946	947	428
35°	823	830	843	859	862	516
45°	691	702	727	758	771	533
55°	534	554	603	650	673	476
65°	353	389	469	531	555	350
75°	167	227	317	371	382	178
85°	33	67	82	88	92	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1035.4	1035.4	1035.4	1035.4	1035.4
2.5°	1037.1	1037.1	1032.2	1035.4	1035.4
5°	1035.4	1033.8	1028.9	1033.8	1033.8
7.5°	1030.5	1028.9	1025.6	1030.5	1028.9
10°	1020.7	1020.7	1017.5	1022.4	1022.4
12.5°	1012.6	1010.9	1009.3	1015.8	1014.2
15°	999.5	999.5	997.9	1006.0	1004.4
17.5°	983.2	984.8	986.4	993.0	994.6
20°	965.2	968.5	970.1	979.9	979.9
22.5°	948.9	950.5	953.8	963.6	963.6
25°	927.6	930.9	937.4	945.6	947.2
27.5°	906.4	908.0	916.2	927.6	929.3
30°	878.6	883.5	893.3	906.4	908.0
32.5°	854.1	859.0	870.5	883.5	886.8
35°	823.1	829.6	842.7	859.0	862.3
37.5°	795.3	800.2	816.6	834.5	839.4
40°	761.0	770.8	787.2	808.4	816.6
42.5°	726.8	736.6	756.1	783.9	793.7
45°	690.8	702.3	726.8	757.8	770.8
47.5°	654.9	668.0	695.7	731.7	746.4
50°	614.1	630.4	664.7	705.5	721.9
52.5°	574.9	594.5	632.0	677.8	699.0
55°	534.0	553.6	602.6	650.0	672.9
57.5°	488.3	514.4	568.3	622.2	646.7
60°	445.9	470.3	535.7	594.5	619.0
62.5°	400.1	432.8	503.0	565.1	589.6
65°	352.8	388.7	468.7	530.8	555.3
67.5°	310.3	349.5	434.4	496.5	521.0
70°	259.7	308.7	396.9	458.9	483.4
72.5°	212.3	266.2	357.7	418.1	441.0
75°	166.6	227.0	316.8	370.7	382.2
77.5°	124.1	187.8	274.4	297.2	289.1
80°	88.2	150.2	213.9	202.5	207.4
82.5°	57.2	114.3	132.3	150.2	155.1
85°	32.7	67.0	81.7	88.2	91.5
87.5°	14.7	24.5	32.7	32.7	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)