

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: P276052

Luminaire Tested: **24CZ2-35HE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3142.6 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

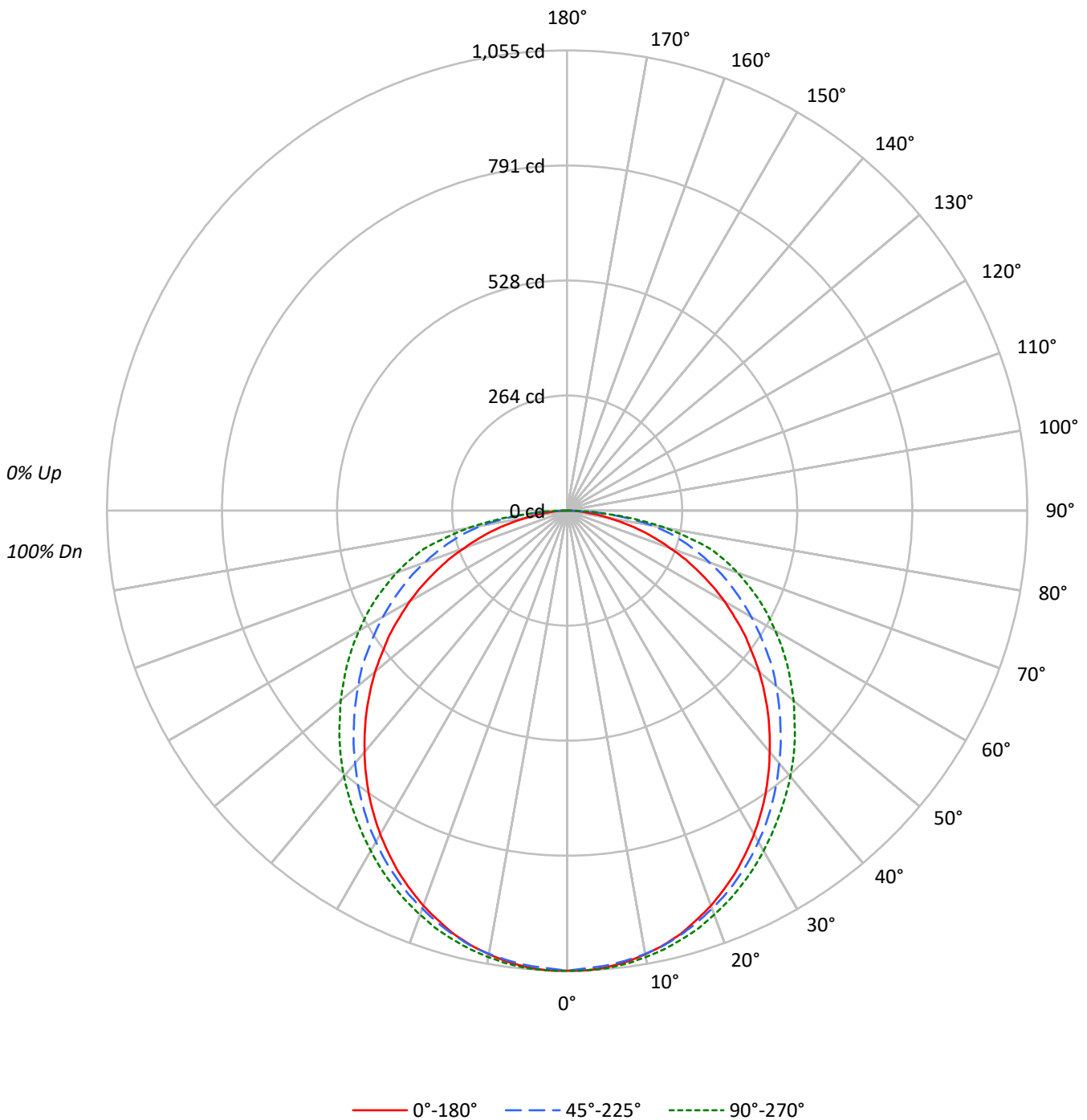
Input Watts (W): 23.994
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1420	1420	1420
5°	1419	1414	1422
10°	1411	1410	1420
15°	1400	1403	1417
20°	1380	1391	1412
25°	1358	1378	1406
30°	1331	1362	1400
35°	1302	1345	1396
40°	1269	1328	1398
45°	1237	1315	1405
50°	1203	1308	1418
55°	1166	1306	1444
60°	1121	1312	1482
65°	1062	1332	1546
70°	986	1366	1634
75°	900	1434	1772
80°	739	1544	1771
85°	567	1425	1522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	3.2
10°-20°	284.9	9.1
20°-30°	428.7	13.6
30°-40°	513.8	16.3
40°-50°	535.4	17.0
50°-60°	498.1	15.9
60°-70°	410.3	13.1
70°-80°	279.4	8.9
80°-90°	92.2	2.9
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°	813.4	25.9
0°-40°	1327.2	42.2
0°-60°	2360.7	75.1
0°-90°	3142.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3142.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1051	1051	1047	1052	1053	100
15°	1005	1006	1007	1016	1017	283
25°	915	919	928	944	947	421
35°	793	802	819	841	850	496
45°	650	664	691	726	738	502
55°	497	514	557	601	616	443
65°	334	362	418	468	486	331
75°	173	212	276	325	341	182
85°	37	71	92	99	99	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.1	1055.1	1055.1	1055.1	1055.1
2.5°	1055.1	1055.1	1049.9	1055.1	1055.1
5°	1050.9	1050.9	1046.7	1052.0	1053.0
7.5°	1043.6	1044.6	1040.4	1046.7	1047.8
10°	1033.1	1034.1	1032.0	1038.3	1039.4
12.5°	1020.5	1021.6	1021.6	1028.9	1029.9
15°	1004.8	1005.8	1006.9	1016.3	1017.4
17.5°	984.8	988.0	990.1	1001.6	1003.7
20°	963.9	967.0	971.2	983.8	985.9
22.5°	939.7	943.9	951.3	964.9	968.1
25°	914.6	918.8	928.2	943.9	947.1
27.5°	886.3	892.6	904.1	920.9	925.1
30°	856.9	863.2	876.8	894.7	900.9
32.5°	825.4	833.8	849.6	869.5	875.8
35°	792.9	802.4	819.1	841.2	849.6
37.5°	758.3	768.8	788.7	812.8	823.3
40°	722.6	735.2	756.2	784.5	796.1
42.5°	687.0	698.5	724.7	755.2	767.7
45°	650.3	663.9	691.2	725.8	738.4
47.5°	612.5	626.2	658.7	695.4	706.9
50°	574.8	588.4	625.1	663.9	677.5
52.5°	533.9	551.7	593.6	632.4	646.1
55°	497.1	513.9	556.9	601.0	615.7
57.5°	455.2	475.1	522.3	568.5	584.2
60°	416.4	437.4	487.7	534.9	550.6
62.5°	376.5	399.6	453.1	501.3	519.2
65°	333.5	361.8	418.5	467.8	485.6
67.5°	294.7	324.1	383.9	434.2	449.9
70°	250.7	286.3	347.2	397.5	415.3
72.5°	212.9	248.6	312.6	361.8	379.7
75°	173.1	211.9	275.8	325.1	340.9
77.5°	133.2	176.2	240.2	277.9	283.2
80°	95.4	140.5	199.3	221.3	228.6
82.5°	67.1	108.0	146.8	161.5	165.7
85°	36.7	71.3	92.3	98.6	98.6
87.5°	15.7	30.4	36.7	37.8	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)