

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: P276281

Luminaire Tested: **24CZ2-35-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276281
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: 24CZ2-35-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3110.4 lumens
Efficiency: N/A
Efficacy: 116.5 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

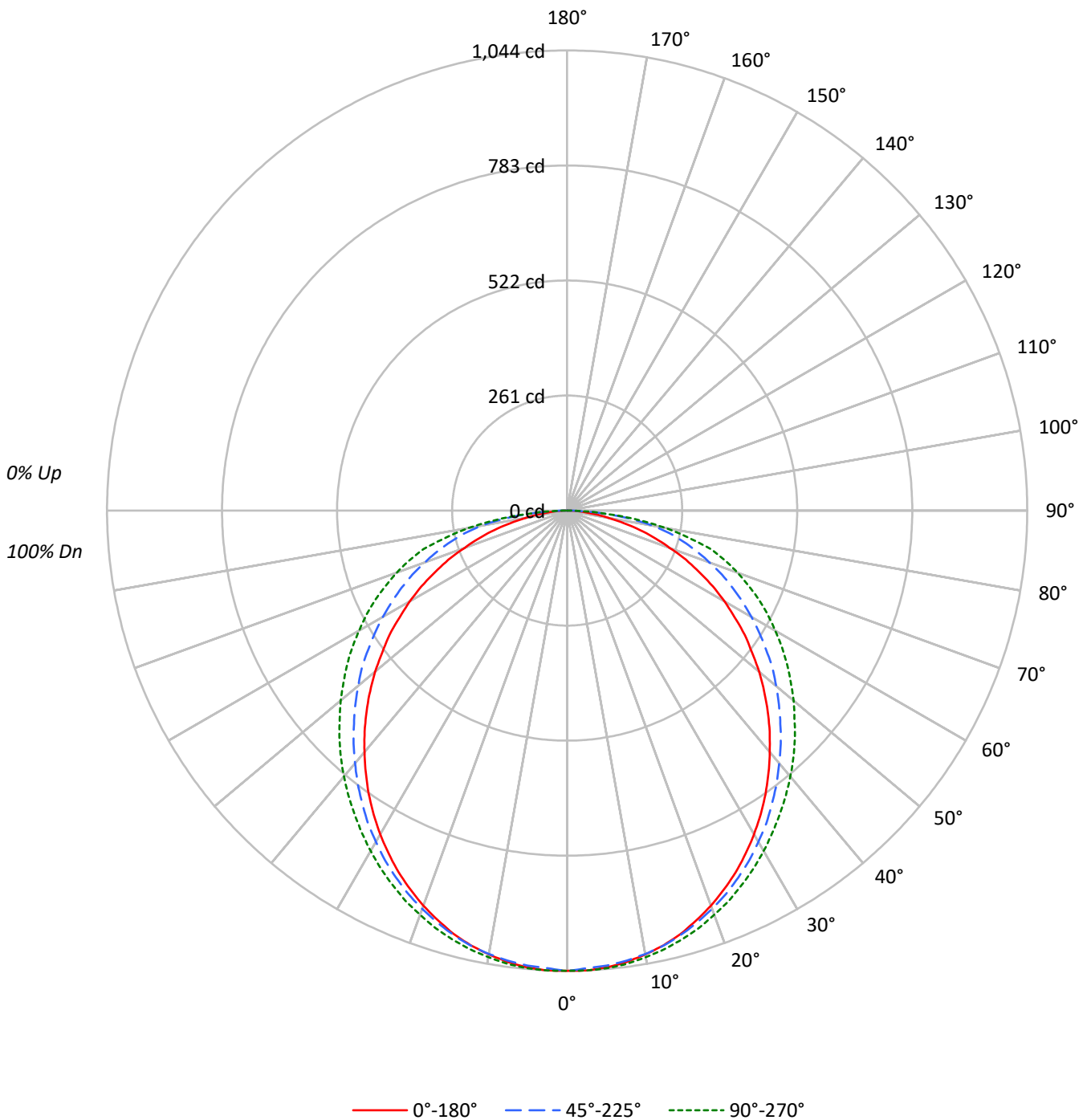
Input Watts (W): 26.691
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56					56			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36					36			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32					32			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25					25			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1405	1405	1405
5°	1405	1399	1408
10°	1397	1396	1406
15°	1385	1388	1403
20°	1366	1376	1397
25°	1344	1364	1392
30°	1318	1348	1385
35°	1289	1332	1381
40°	1256	1315	1384
45°	1225	1302	1391
50°	1191	1295	1404
55°	1154	1293	1430
60°	1109	1299	1467
65°	1051	1319	1530
70°	976	1352	1617
75°	891	1419	1754
80°	732	1528	1753
85°	560	1411	1507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	3.2
10°-20°	282.0	9.1
20°-30°	424.3	13.6
30°-40°	508.5	16.3
40°-50°	529.9	17.0
50°-60°	493.0	15.9
60°-70°	406.1	13.1
70°-80°	276.5	8.9
80°-90°	91.3	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°	805.1	25.9
0°-40°	1313.6	42.2
0°-60°	2336.5	75.1
0°-90°	3110.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3110.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1040	1040	1036	1041	1042	99
15°	994	996	997	1006	1007	280
25°	905	909	919	934	937	417
35°	785	794	811	833	841	491
45°	644	657	684	718	731	496
55°	492	509	551	595	609	439
65°	330	358	414	463	481	328
75°	171	210	273	322	337	181
85°	36	71	91	98	98	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	1044.3	1044.3	1039.1	1044.3	1044.3
5°	1040.2	1040.2	1036.0	1041.2	1042.2
7.5°	1032.9	1033.9	1029.8	1036.0	1037.1
10°	1022.5	1023.6	1021.5	1027.7	1028.8
12.5°	1010.1	1011.1	1011.1	1018.4	1019.4
15°	994.5	995.5	996.6	1005.9	1007.0
17.5°	974.8	977.9	980.0	991.4	993.5
20°	954.0	957.1	961.3	973.7	975.8
22.5°	930.1	934.3	941.6	955.0	958.2
25°	905.2	909.4	918.7	934.3	937.4
27.5°	877.2	883.4	894.8	911.4	915.6
30°	848.1	854.4	867.8	885.5	891.7
32.5°	817.0	825.3	840.9	860.6	866.8
35°	784.8	794.1	810.8	832.6	840.9
37.5°	750.5	760.9	780.6	804.5	814.9
40°	715.2	727.7	748.5	776.5	787.9
42.5°	680.0	691.4	717.3	747.4	759.9
45°	643.6	657.1	684.1	718.4	730.8
47.5°	606.2	619.7	651.9	688.3	699.7
50°	568.9	582.4	618.7	657.1	670.6
52.5°	528.4	546.0	587.6	626.0	639.5
55°	492.1	508.7	551.2	594.8	609.4
57.5°	450.5	470.3	517.0	562.6	578.2
60°	412.1	432.9	482.7	529.4	545.0
62.5°	372.7	395.5	448.5	496.2	513.9
65°	330.1	358.1	414.2	463.0	480.6
67.5°	291.7	320.8	379.9	429.8	445.3
70°	248.1	283.4	343.6	393.4	411.1
72.5°	210.7	246.0	309.4	358.1	375.8
75°	171.3	209.7	273.0	321.8	337.4
77.5°	131.8	174.4	237.7	275.1	280.3
80°	94.5	139.1	197.2	219.0	226.3
82.5°	66.4	106.9	145.3	159.9	164.0
85°	36.3	70.6	91.4	97.6	97.6
87.5°	15.6	30.1	36.3	37.4	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)