

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: P276283

Luminaire Tested: **24CZ2-35-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276283
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-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3171.9 lumens
Efficiency: N/A
Efficacy: 118.0 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

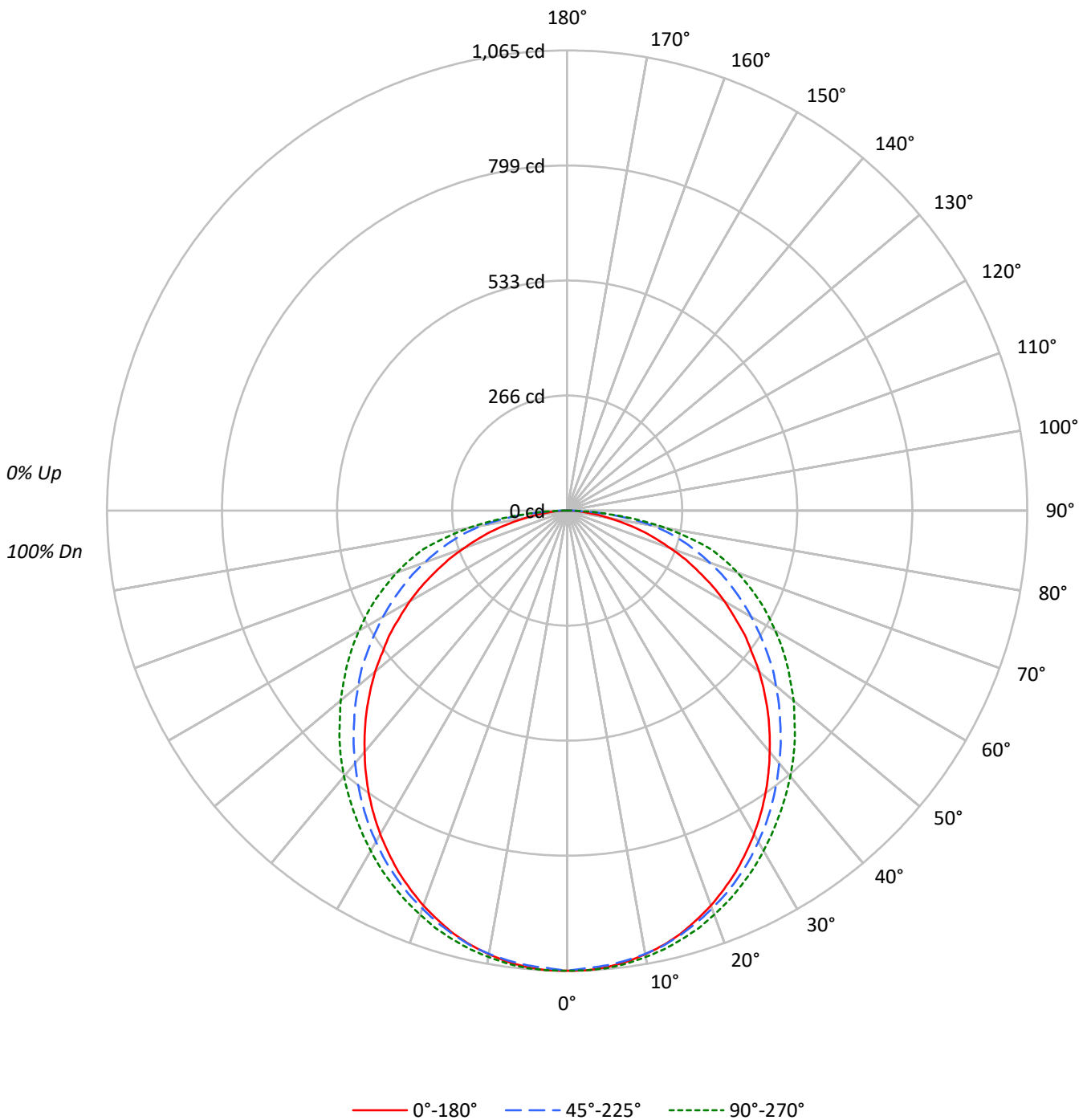
Input Watts (W): 26.877
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1433	1433	1433
5°	1433	1427	1435
10°	1425	1423	1433
15°	1413	1416	1430
20°	1393	1404	1425
25°	1370	1391	1419
30°	1344	1375	1413
35°	1315	1358	1408
40°	1281	1341	1411
45°	1249	1327	1418
50°	1214	1321	1432
55°	1177	1319	1458
60°	1131	1325	1496
65°	1072	1345	1560
70°	995	1378	1649
75°	908	1447	1789
80°	746	1558	1788
85°	573	1439	1536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	3.2
10°-20°	287.5	9.1
20°-30°	432.7	13.6
30°-40°	518.6	16.3
40°-50°	540.4	17.0
50°-60°	502.8	15.9
60°-70°	414.1	13.1
70°-80°	282.0	8.9
80°-90°	93.1	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°	821.0	25.9
0°-40°	1339.5	42.2
0°-60°	2382.7	75.1
0°-90°	3171.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3171.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1061	1061	1056	1062	1063	101
15°	1014	1015	1016	1026	1027	286
25°	923	927	937	953	956	425
35°	800	810	827	849	858	500
45°	656	670	698	733	745	506
55°	502	519	562	607	621	447
65°	337	365	422	472	490	334
75°	175	214	278	328	344	184
85°	37	72	93	100	100	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1065.0	1065.0	1065.0	1065.0	1065.0
2.5°	1065.0	1065.0	1059.7	1065.0	1065.0
5°	1060.7	1060.7	1056.5	1061.8	1062.8
7.5°	1053.3	1054.4	1050.1	1056.5	1057.6
10°	1042.7	1043.8	1041.7	1048.0	1049.1
12.5°	1030.0	1031.1	1031.1	1038.5	1039.6
15°	1014.2	1015.2	1016.3	1025.8	1026.9
17.5°	994.0	997.2	999.3	1011.0	1013.1
20°	972.9	976.0	980.3	993.0	995.1
22.5°	948.5	952.8	960.2	973.9	977.1
25°	923.1	927.3	936.9	952.8	955.9
27.5°	894.5	900.9	912.5	929.5	933.7
30°	864.9	871.2	885.0	903.0	909.4
32.5°	833.1	841.6	857.5	877.6	883.9
35°	800.3	809.8	826.8	849.0	857.5
37.5°	765.4	776.0	796.1	820.4	831.0
40°	729.4	742.1	763.3	791.8	803.5
42.5°	693.4	705.0	731.5	762.2	774.9
45°	656.3	670.1	697.6	732.6	745.3
47.5°	618.2	632.0	664.8	701.9	713.5
50°	580.1	593.9	630.9	670.1	683.9
52.5°	538.8	556.8	599.2	638.3	652.1
55°	501.8	518.7	562.1	606.6	621.4
57.5°	459.4	479.6	527.2	573.8	589.6
60°	420.3	441.4	492.3	539.9	555.8
62.5°	380.0	403.3	457.3	506.0	524.0
65°	336.6	365.2	422.4	472.1	490.1
67.5°	297.5	327.1	387.5	438.3	454.1
70°	253.0	289.0	350.4	401.2	419.2
72.5°	214.9	250.9	315.5	365.2	383.2
75°	174.7	213.8	278.4	328.2	344.1
77.5°	134.4	177.8	242.4	280.5	285.8
80°	96.3	141.9	201.1	223.4	230.8
82.5°	67.8	109.0	148.2	163.0	167.3
85°	37.1	72.0	93.2	99.5	99.5
87.5°	15.9	30.7	37.1	38.1	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)