

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: P276049

Luminaire Tested: **24CZ2-30HE-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276049
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: 24CZ2-30HE-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3028.1 lumens
Efficiency: N/A
Efficacy: 150.0 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

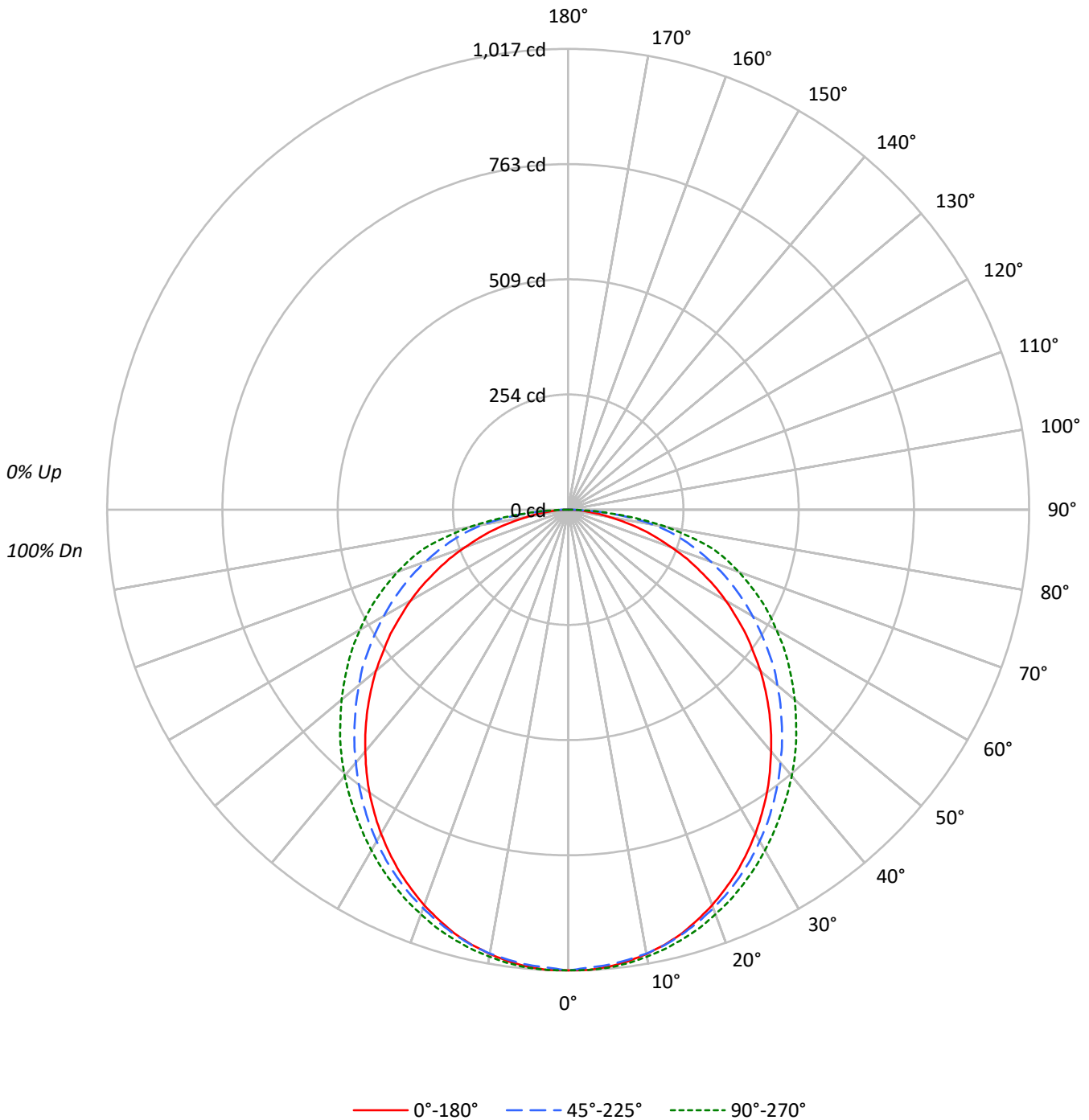
Input Watts (W): 20.181
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1368	1368	1368
5°	1368	1362	1370
10°	1360	1359	1368
15°	1349	1351	1366
20°	1330	1340	1360
25°	1308	1328	1355
30°	1283	1313	1349
35°	1255	1296	1345
40°	1223	1280	1347
45°	1192	1267	1354
50°	1159	1261	1367
55°	1124	1259	1392
60°	1080	1264	1428
65°	1023	1284	1490
70°	950	1316	1574
75°	867	1382	1708
80°	713	1488	1707
85°	546	1372	1467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	3.2
10°-20°	274.5	9.1
20°-30°	413.1	13.6
30°-40°	495.0	16.3
40°-50°	515.9	17.0
50°-60°	480.0	15.9
60°-70°	395.3	13.1
70°-80°	269.2	8.9
80°-90°	88.9	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°	783.8	25.9
0°-40°	1278.8	42.2
0°-60°	2274.7	75.1
0°-90°	3028.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3028.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1013	1013	1009	1014	1015	96
15°	968	969	970	979	980	273
25°	881	885	894	910	913	406
35°	764	773	789	810	819	478
45°	627	640	666	699	712	483
55°	479	495	537	579	593	427
65°	321	349	403	451	468	319
75°	167	204	266	313	328	176
85°	35	69	89	95	95	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.7	1016.7	1016.7	1016.7	1016.7
2.5°	1016.7	1016.7	1011.6	1016.7	1016.7
5°	1012.6	1012.6	1008.6	1013.7	1014.7
7.5°	1005.6	1006.6	1002.5	1008.6	1009.6
10°	995.5	996.5	994.5	1000.5	1001.5
12.5°	983.3	984.3	984.3	991.4	992.4
15°	968.2	969.2	970.2	979.3	980.3
17.5°	949.0	952.0	954.0	965.1	967.2
20°	928.8	931.8	935.8	948.0	950.0
22.5°	905.5	909.6	916.6	929.8	932.8
25°	881.3	885.3	894.4	909.6	912.6
27.5°	854.0	860.0	871.2	887.3	891.4
30°	825.7	831.7	844.9	862.1	868.1
32.5°	795.4	803.4	818.6	837.8	843.9
35°	764.0	773.1	789.3	810.5	818.6
37.5°	730.7	740.8	760.0	783.2	793.3
40°	696.3	708.4	728.7	755.9	767.1
42.5°	662.0	673.1	698.3	727.7	739.8
45°	626.6	639.7	666.0	699.4	711.5
47.5°	590.2	603.3	634.7	670.0	681.2
50°	553.8	567.0	602.3	639.7	652.9
52.5°	514.4	531.6	572.0	609.4	622.5
55°	479.0	495.2	536.6	579.1	593.2
57.5°	438.6	457.8	503.3	547.8	562.9
60°	401.2	421.4	469.9	515.4	530.6
62.5°	362.8	385.0	436.6	483.1	500.3
65°	321.4	348.7	403.2	450.7	467.9
67.5°	284.0	312.3	369.9	418.4	433.6
70°	241.5	275.9	334.5	383.0	400.2
72.5°	205.2	239.5	301.2	348.7	365.8
75°	166.8	204.1	265.8	313.3	328.5
77.5°	128.3	169.8	231.4	267.8	272.9
80°	92.0	135.4	192.0	213.2	220.3
82.5°	64.7	104.1	141.5	155.6	159.7
85°	35.4	68.7	88.9	95.0	95.0
87.5°	15.2	29.3	35.4	36.4	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)