

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: P276555

Luminaire Tested: **24CZ2-30-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-S-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3009.8 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

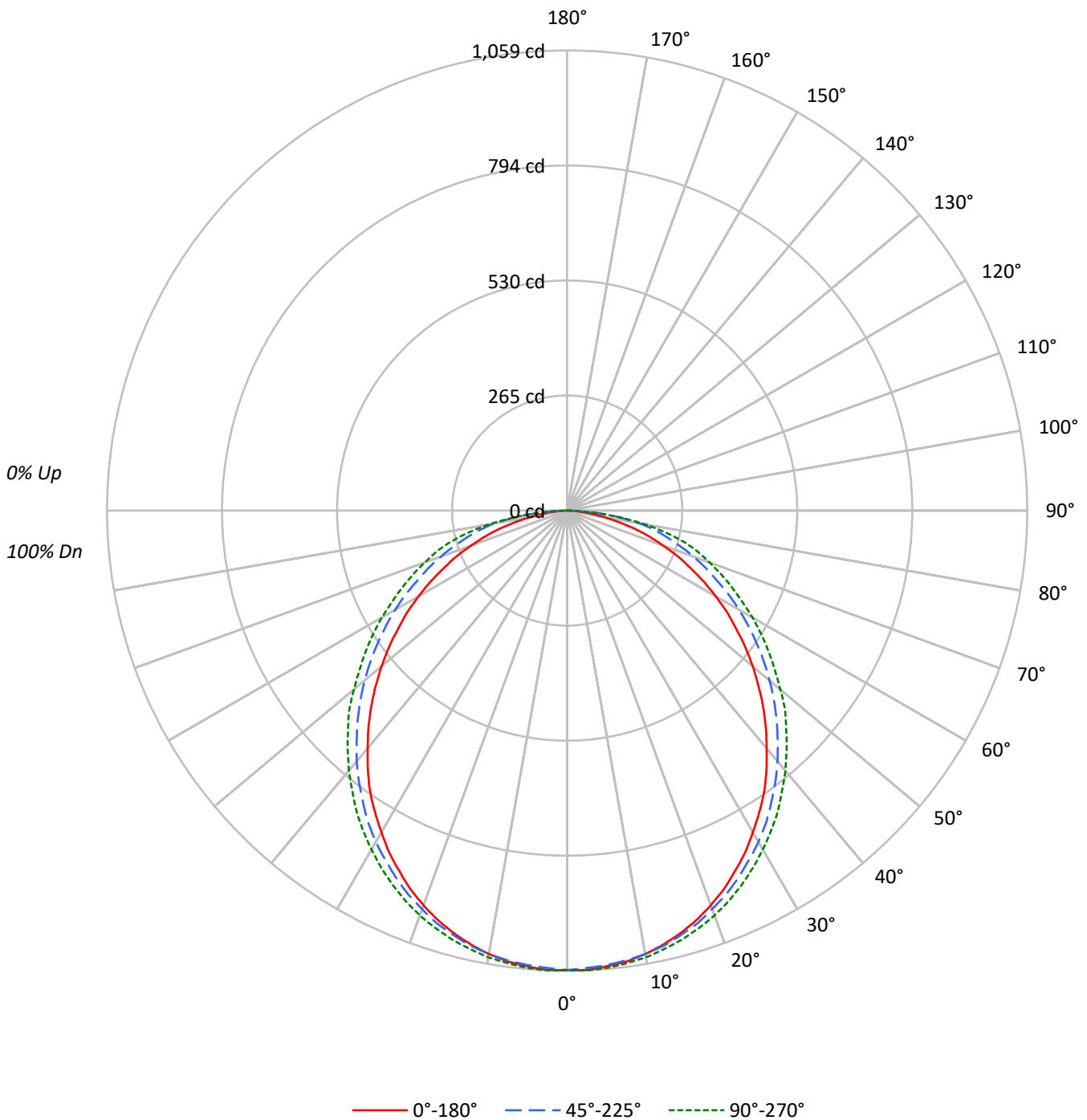
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1423	1423	1423
5°	1422	1418	1427
10°	1416	1416	1426
15°	1402	1409	1424
20°	1384	1398	1420
25°	1358	1384	1411
30°	1328	1368	1399
35°	1299	1346	1388
40°	1254	1323	1372
45°	1213	1297	1357
50°	1167	1273	1341
55°	1114	1249	1328
60°	1062	1230	1325
65°	995	1208	1333
70°	921	1215	1369
75°	825	1238	1446
80°	666	1311	1415
85°	502	1152	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.3
10°-20°	286.0	9.5
20°-30°	430.0	14.3
30°-40°	512.2	17.0
40°-50°	524.2	17.4
50°-60°	471.9	15.7
60°-70°	370.6	12.3
70°-80°	240.5	8.0
80°-90°	74.4	2.5
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°	816.1	27.1
0°-40°	1328.2	44.1
0°-60°	2324.3	77.2
0°-90°	3009.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3009.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1053	1054	1050	1056	1056	100
15°	1007	1010	1012	1020	1022	284
25°	915	923	932	947	950	421
35°	791	800	819	839	845	493
45°	638	653	682	708	713	492
55°	475	496	532	560	566	426
65°	313	336	380	411	419	311
75°	159	189	238	271	278	168
85°	32	60	75	73	73	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.4	1057.4	1057.4	1057.4	1057.4
2.5°	1058.3	1058.3	1053.5	1058.3	1059.3
5°	1052.6	1054.5	1049.7	1055.5	1056.4
7.5°	1046.9	1046.9	1044.0	1049.7	1050.7
10°	1036.3	1037.3	1036.3	1043.0	1044.0
12.5°	1023.0	1024.9	1025.8	1032.5	1033.5
15°	1006.7	1009.6	1011.5	1020.1	1022.0
17.5°	988.5	991.4	996.2	1005.7	1007.7
20°	966.5	970.4	976.1	988.5	991.4
22.5°	942.6	946.5	956.0	967.5	972.3
25°	914.9	922.6	932.1	947.4	950.3
27.5°	887.2	893.9	906.3	922.6	926.4
30°	854.7	865.2	880.5	896.8	900.6
32.5°	823.1	833.7	851.8	869.0	873.8
35°	790.6	800.2	819.3	839.4	845.1
37.5°	753.4	765.8	786.8	806.9	812.6
40°	714.2	729.4	753.4	774.4	781.1
42.5°	676.9	693.1	717.0	740.0	747.6
45°	637.7	653.0	681.6	707.5	713.2
47.5°	597.5	614.7	645.3	671.1	680.7
50°	557.4	575.5	608.0	634.8	640.5
52.5°	517.2	536.3	570.7	599.4	602.3
55°	475.1	496.2	532.5	560.2	566.0
57.5°	436.9	455.1	494.3	522.9	529.6
60°	394.8	414.9	457.0	483.8	492.4
62.5°	354.7	375.7	419.7	446.5	454.1
65°	312.6	336.5	379.5	411.1	418.7
67.5°	276.3	299.2	345.1	375.7	383.4
70°	234.2	260.0	308.8	340.3	348.0
72.5°	197.9	224.7	273.4	304.0	315.5
75°	158.7	189.3	238.1	270.6	278.2
77.5°	120.5	155.8	205.5	230.4	230.4
80°	86.0	123.3	169.2	180.7	182.6
82.5°	56.4	92.7	125.2	124.3	124.3
85°	32.5	60.2	74.6	72.7	72.7
87.5°	12.4	24.9	26.8	26.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)