

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: P261265

Luminaire Tested: **24CZ-LD5-30-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2972.0 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

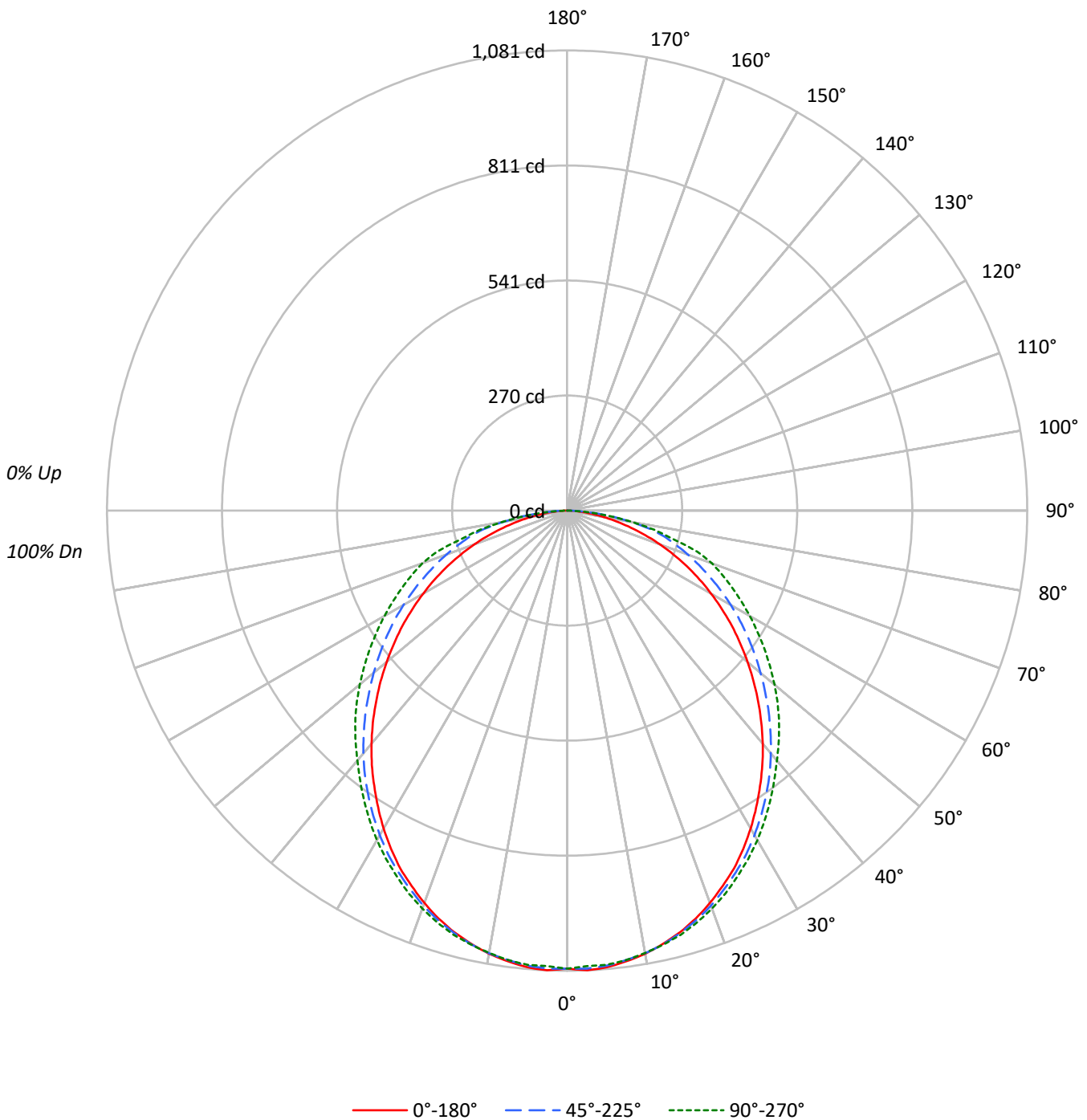
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1448	1448	1448
5°	1454	1449	1447
10°	1444	1443	1442
15°	1428	1431	1437
20°	1405	1415	1424
25°	1377	1392	1406
30°	1340	1367	1389
35°	1298	1339	1366
40°	1256	1308	1346
45°	1208	1274	1340
50°	1159	1242	1331
55°	1109	1216	1327
60°	1051	1195	1333
65°	989	1181	1360
70°	910	1186	1424
75°	807	1228	1326
80°	674	1165	1196
85°	503	931	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	3.4
10°-20°	289.3	9.7
20°-30°	431.1	14.5
30°-40°	507.5	17.1
40°-50°	515.8	17.4
50°-60°	463.7	15.6
60°-70°	366.3	12.3
70°-80°	232.4	7.8
80°-90°	64.1	2.2
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°	822.2	27.7
0°-40°	1329.7	44.7
0°-60°	2309.1	77.7
0°-90°	2972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1077	1068	1073	1071	1071	102
15°	1026	1020	1028	1030	1031	289
25°	928	927	938	943	947	426
35°	790	795	815	824	832	494
45°	635	644	670	689	704	490
55°	473	485	518	552	566	422
65°	310	326	371	411	427	308
75°	155	182	236	257	255	165
85°	33	56	60	55	55	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1075.9	1075.9	1075.9	1075.9	1075.9
2.5°	1080.9	1073.0	1076.9	1074.9	1071.0
5°	1076.9	1068.0	1073.0	1071.0	1071.0
7.5°	1068.0	1061.1	1065.0	1064.1	1065.0
10°	1057.1	1050.2	1056.1	1056.1	1055.2
12.5°	1042.3	1036.4	1043.3	1043.3	1044.3
15°	1025.5	1020.5	1027.5	1030.4	1031.4
17.5°	1004.7	999.8	1008.7	1011.6	1014.6
20°	981.0	979.0	987.9	990.9	994.8
22.5°	954.3	954.3	963.2	967.1	973.1
25°	927.6	926.6	937.5	943.4	947.4
27.5°	895.9	896.9	910.8	916.7	921.7
30°	862.3	864.3	880.1	887.0	894.0
32.5°	826.7	830.7	848.5	856.4	863.3
35°	790.1	795.1	814.9	823.8	831.7
37.5°	753.5	760.5	781.2	790.1	799.0
40°	715.0	720.9	744.6	755.5	766.4
42.5°	675.4	683.3	707.1	722.9	735.7
45°	634.9	643.8	669.5	689.3	704.1
47.5°	594.3	606.2	630.9	657.6	670.5
50°	553.8	565.6	593.3	623.0	635.9
52.5°	512.2	524.1	555.8	586.4	600.3
55°	472.7	484.6	518.2	551.8	565.6
57.5°	431.2	444.0	481.6	516.2	530.0
60°	390.6	403.5	444.0	480.6	495.4
62.5°	351.1	364.9	407.4	446.0	460.8
65°	310.5	326.3	370.8	411.4	427.2
67.5°	271.0	288.8	335.2	377.8	394.6
70°	231.4	252.2	301.6	345.1	361.9
72.5°	192.8	215.6	268.0	311.5	320.4
75°	155.3	182.0	236.3	257.1	255.1
77.5°	119.7	149.3	200.7	204.7	210.6
80°	87.0	119.7	150.3	158.2	154.3
82.5°	57.4	90.0	107.8	103.8	102.8
85°	32.6	56.4	60.3	55.4	55.4
87.5°	13.8	22.7	19.8	14.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)