

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: P259309

Luminaire Tested: **22CZ-LD5-39-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4055.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

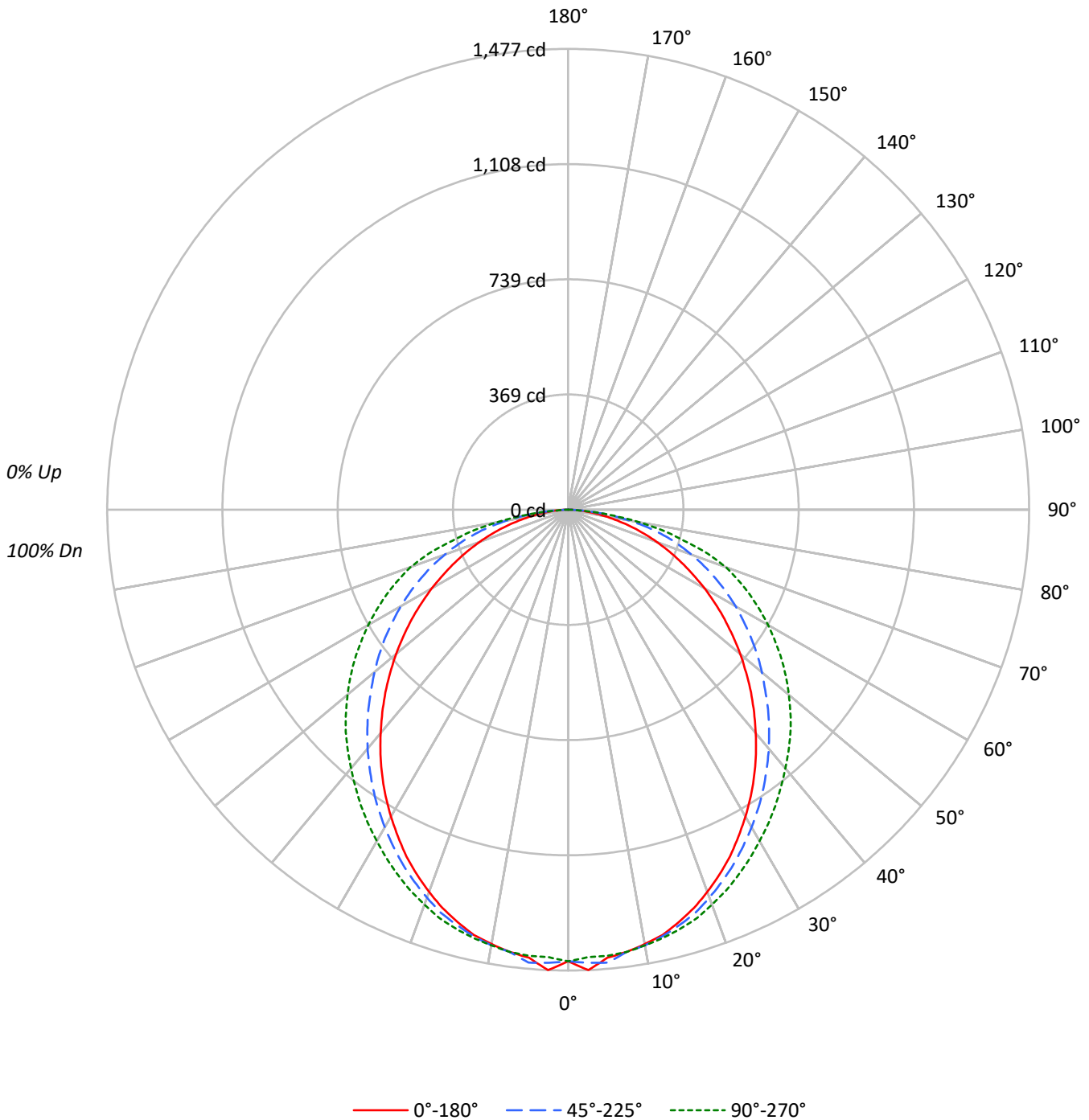
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3895	3895	3895
5°	3894	3936	3878
10°	3863	3874	3874
15°	3813	3840	3873
20°	3733	3789	3857
25°	3642	3724	3835
30°	3529	3652	3811
35°	3414	3582	3802
40°	3283	3512	3803
45°	3152	3444	3835
50°	3013	3393	3863
55°	2868	3358	3913
60°	2717	3333	3980
65°	2549	3315	4081
70°	2374	3305	4220
75°	2152	3301	3998
80°	1864	3056	3544
85°	1584	2313	2254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	3.4
10°-20°	388.8	9.6
20°-30°	578.4	14.3
30°-40°	684.1	16.9
40°-50°	703.2	17.3
50°-60°	642.5	15.8
60°-70°	514.0	12.7
70°-80°	322.6	8.0
80°-90°	84.0	2.1
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°	1104.6	27.2
0°-40°	1788.7	44.1
0°-60°	3134.4	77.3
0°-90°	4055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1442	1442	1457	1447	1436	137
15°	1368	1370	1378	1386	1390	385
25°	1226	1234	1254	1276	1292	564
35°	1039	1053	1090	1132	1158	649
45°	828	850	905	972	1008	639
55°	611	641	716	795	834	547
65°	400	436	521	600	641	397
75°	207	246	318	365	384	220
85°	51	65	75	73	73	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.4	1447.4	1447.4	1447.4	1447.4
2.5°	1476.9	1471.0	1453.3	1441.5	1435.5
5°	1441.5	1441.5	1457.2	1447.4	1435.5
7.5°	1429.6	1429.6	1429.6	1459.2	1429.6
10°	1413.8	1415.8	1417.8	1429.6	1417.8
12.5°	1396.1	1396.1	1400.0	1404.0	1406.0
15°	1368.5	1370.5	1378.4	1386.2	1390.2
17.5°	1338.9	1344.8	1354.7	1364.5	1372.4
20°	1303.4	1311.3	1323.1	1338.9	1346.8
22.5°	1266.0	1273.8	1289.6	1307.4	1321.2
25°	1226.5	1234.4	1254.1	1275.8	1291.6
27.5°	1181.2	1191.0	1214.7	1244.3	1260.0
30°	1135.8	1147.6	1175.2	1208.8	1226.5
32.5°	1088.5	1102.3	1133.8	1171.3	1193.0
35°	1039.2	1053.0	1090.5	1131.9	1157.5
37.5°	987.9	1003.7	1045.1	1092.4	1120.0
40°	934.7	952.4	999.7	1051.0	1082.6
42.5°	881.4	901.2	952.4	1013.6	1045.1
45°	828.2	849.9	905.1	972.1	1007.6
47.5°	773.0	798.6	855.8	930.7	966.2
50°	719.7	745.4	810.4	887.3	922.8
52.5°	664.5	694.1	763.1	842.0	879.5
55°	611.3	640.9	715.8	794.7	834.1
57.5°	558.0	587.6	666.5	747.3	786.8
60°	504.8	536.4	619.2	698.0	739.5
62.5°	451.6	485.1	569.9	650.7	690.2
65°	400.3	435.8	520.6	599.5	640.9
67.5°	351.0	388.5	471.3	548.2	589.6
70°	301.7	339.2	420.0	494.9	536.4
72.5°	254.4	291.8	370.7	437.8	469.3
75°	207.0	246.5	317.5	364.8	384.5
77.5°	161.7	201.1	262.3	293.8	315.5
80°	120.3	153.8	197.2	220.9	228.7
82.5°	82.8	110.4	138.0	143.9	147.9
85°	51.3	65.1	74.9	73.0	73.0
87.5°	23.7	25.6	21.7	15.8	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)