

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: P259313

Luminaire Tested: **22CZ-LD5-44-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259313
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-LD5-44-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4054.0 lumens
Efficiency: N/A
Efficacy: 117.2 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

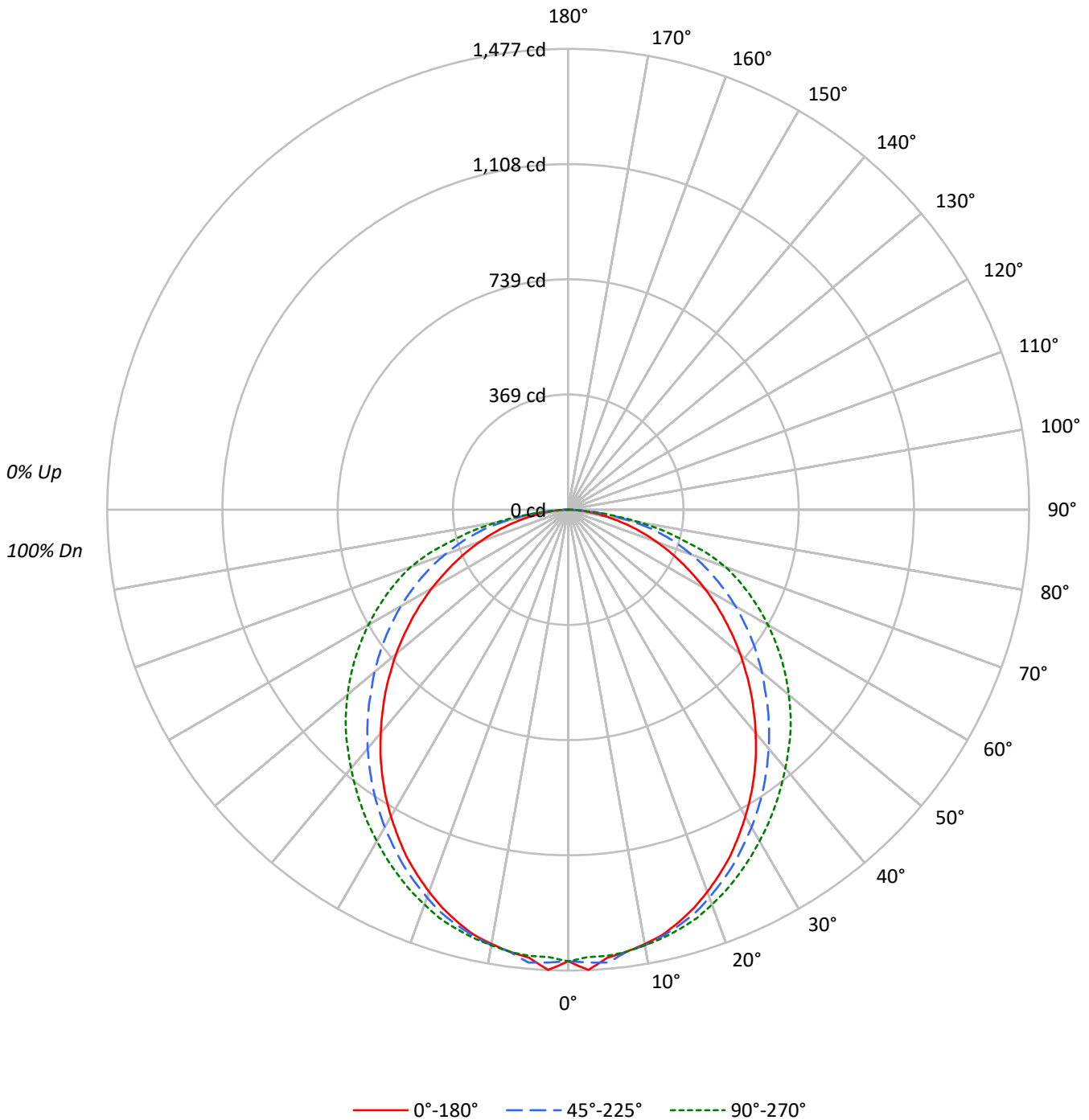
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3894	3894	3894
5°	3893	3935	3877
10°	3862	3873	3873
15°	3812	3839	3872
20°	3732	3788	3856
25°	3641	3723	3834
30°	3528	3651	3810
35°	3413	3581	3801
40°	3282	3511	3802
45°	3151	3444	3834
50°	3013	3392	3862
55°	2867	3357	3912
60°	2716	3331	3979
65°	2548	3314	4080
70°	2373	3304	4219
75°	2152	3300	3997
80°	1864	3054	3544
85°	1584	2313	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.4
10°-20°	388.8	9.6
20°-30°	578.3	14.3
30°-40°	684.0	16.9
40°-50°	703.0	17.3
50°-60°	642.4	15.8
60°-70°	513.9	12.7
70°-80°	322.5	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°	1104.3	27.2
0°-40°	1788.3	44.1
0°-60°	3133.6	77.3
0°-90°	4054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1441	1441	1457	1447	1435	137
15°	1368	1370	1378	1386	1390	385
25°	1226	1234	1254	1276	1291	564
35°	1039	1053	1090	1132	1157	649
45°	828	850	905	972	1007	638
55°	611	641	716	794	834	547
65°	400	436	520	599	641	397
75°	207	246	317	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°	1447.0	1447.0	1447.0	1447.0	1447.0
2.5°	1476.6	1470.7	1452.9	1441.1	1435.2
5°	1441.1	1441.1	1456.9	1447.0	1435.2
7.5°	1429.3	1429.3	1429.3	1458.8	1429.3
10°	1413.5	1415.5	1417.4	1429.3	1417.4
12.5°	1395.8	1395.8	1399.7	1403.6	1405.6
15°	1368.2	1370.1	1378.0	1385.9	1389.8
17.5°	1338.6	1344.5	1354.4	1364.2	1372.1
20°	1303.1	1311.0	1322.8	1338.6	1346.5
22.5°	1265.6	1273.5	1289.3	1307.0	1320.8
25°	1226.2	1234.1	1253.8	1275.5	1291.3
27.5°	1180.9	1190.7	1214.4	1244.0	1259.7
30°	1135.5	1147.4	1175.0	1208.5	1226.2
32.5°	1088.2	1102.0	1133.6	1171.0	1192.7
35°	1038.9	1052.7	1090.2	1131.6	1157.2
37.5°	987.7	1003.4	1044.8	1092.2	1119.8
40°	934.4	952.2	999.5	1050.8	1082.3
42.5°	881.2	900.9	952.2	1013.3	1044.8
45°	828.0	849.7	904.9	971.9	1007.4
47.5°	772.8	798.4	855.6	930.5	966.0
50°	719.6	745.2	810.2	887.1	922.6
52.5°	664.4	693.9	762.9	841.8	879.2
55°	611.1	640.7	715.6	794.5	833.9
57.5°	557.9	587.5	666.3	747.2	786.6
60°	504.7	536.2	619.0	697.9	739.3
62.5°	451.5	485.0	569.7	650.6	690.0
65°	400.2	435.7	520.5	599.3	640.7
67.5°	350.9	388.4	471.2	548.0	589.4
70°	301.6	339.1	419.9	494.8	536.2
72.5°	254.3	291.8	370.6	437.7	469.2
75°	207.0	246.4	317.4	364.7	384.4
77.5°	161.7	201.1	262.2	293.7	315.4
80°	120.3	153.8	197.1	220.8	228.7
82.5°	82.8	110.4	138.0	143.9	147.9
85°	51.3	65.1	74.9	72.9	72.9
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)