

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: P259317

Luminaire Tested: **22CZ-LD5-44-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259317
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-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4488.0 lumens
Efficiency: N/A
Efficacy: 127.3 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

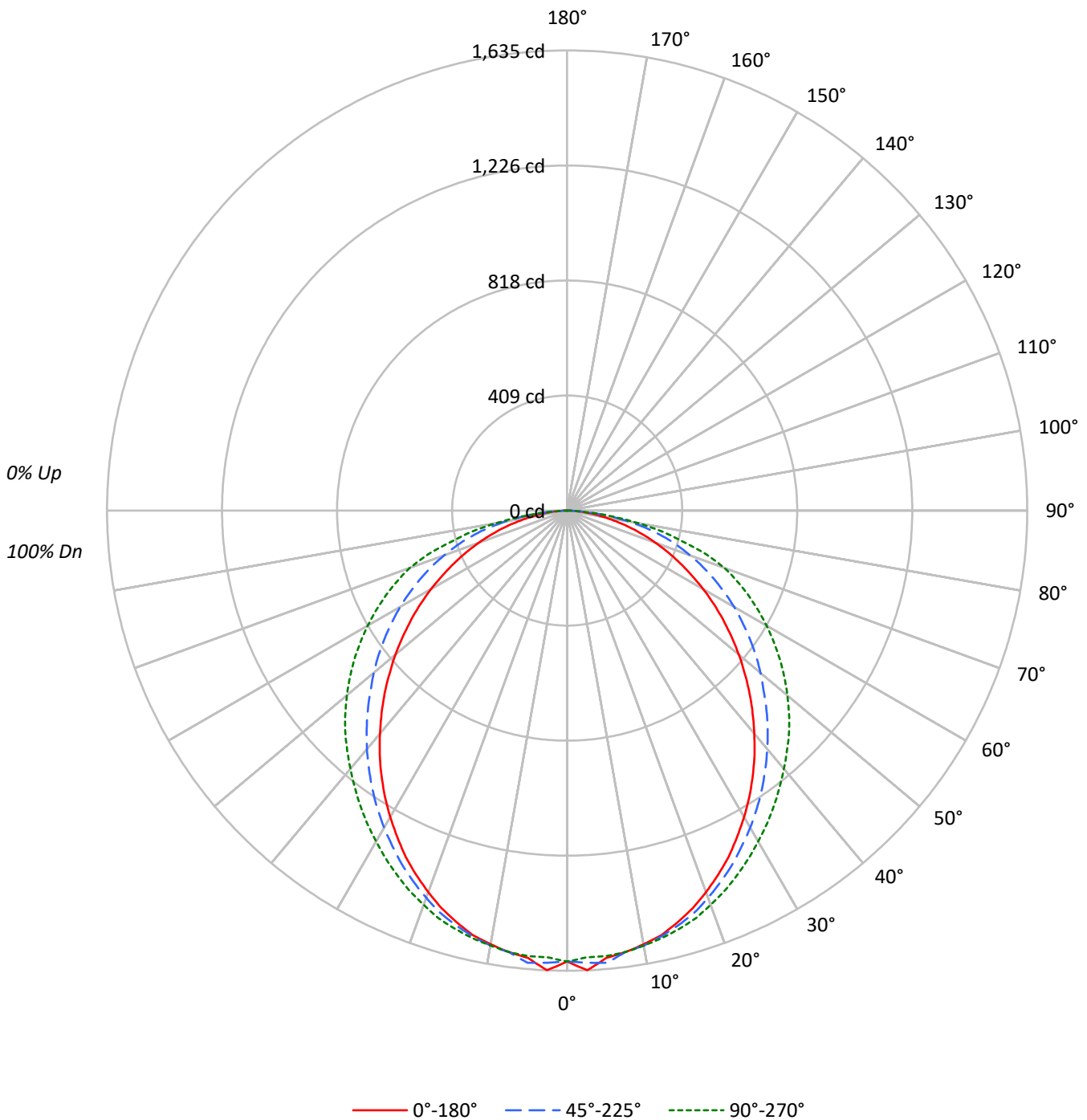
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4311	4311	4311
5°	4310	4357	4292
10°	4276	4288	4288
15°	4220	4250	4286
20°	4131	4194	4269
25°	4031	4121	4244
30°	3906	4042	4218
35°	3778	3965	4209
40°	3634	3887	4209
45°	3488	3812	4244
50°	3335	3755	4276
55°	3174	3717	4331
60°	3007	3688	4405
65°	2821	3669	4516
70°	2627	3658	4670
75°	2383	3654	4425
80°	2063	3381	3924
85°	1751	2560	2495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	3.4
10°-20°	430.4	9.6
20°-30°	640.2	14.3
30°-40°	757.2	16.9
40°-50°	778.2	17.3
50°-60°	711.1	15.8
60°-70°	568.9	12.7
70°-80°	357.0	8.0
80°-90°	93.0	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°	1222.5	27.2
0°-40°	1979.7	44.1
0°-60°	3469.1	77.3
0°-90°	4488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1602	1602	1602	1602	1602	
5°	1595	1595	1613	1602	1589	152
15°	1515	1517	1526	1534	1539	427
25°	1358	1366	1388	1412	1430	624
35°	1150	1165	1207	1253	1281	719
45°	917	941	1002	1076	1115	707
55°	677	709	792	880	923	605
65°	443	482	576	664	709	440
75°	229	273	351	404	426	243
85°	57	72	83	81	81	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1601.9	1601.9	1601.9	1601.9	1601.9
2.5°	1634.7	1628.1	1608.5	1595.4	1588.8
5°	1595.4	1595.4	1612.8	1601.9	1588.8
7.5°	1582.3	1582.3	1582.3	1615.0	1582.3
10°	1564.8	1567.0	1569.2	1582.3	1569.2
12.5°	1545.2	1545.2	1549.5	1553.9	1556.1
15°	1514.6	1516.8	1525.5	1534.3	1538.6
17.5°	1481.9	1488.4	1499.3	1510.3	1519.0
20°	1442.6	1451.3	1464.4	1481.9	1490.6
22.5°	1401.1	1409.9	1427.3	1447.0	1462.2
25°	1357.5	1366.2	1388.0	1412.0	1429.5
27.5°	1307.3	1318.2	1344.4	1377.1	1394.6
30°	1257.1	1270.2	1300.7	1337.8	1357.5
32.5°	1204.7	1220.0	1254.9	1296.4	1320.4
35°	1150.2	1165.4	1206.9	1252.7	1281.1
37.5°	1093.4	1110.9	1156.7	1209.1	1239.6
40°	1034.5	1054.1	1106.5	1163.2	1198.2
42.5°	975.6	997.4	1054.1	1121.8	1156.7
45°	916.6	940.6	1001.7	1075.9	1115.2
47.5°	855.5	883.9	947.2	1030.1	1069.4
50°	796.6	825.0	897.0	982.1	1021.4
52.5°	735.5	768.2	844.6	931.9	973.4
55°	676.6	709.3	792.2	879.5	923.2
57.5°	617.6	650.4	737.7	827.1	870.8
60°	558.7	593.6	685.3	772.6	818.4
62.5°	499.8	536.9	630.7	720.2	763.9
65°	443.0	482.3	576.2	663.5	709.3
67.5°	388.5	429.9	521.6	606.7	652.6
70°	333.9	375.4	464.9	547.8	593.6
72.5°	281.5	323.0	410.3	484.5	519.4
75°	229.2	272.8	351.4	403.8	425.6
77.5°	179.0	222.6	290.3	325.2	349.2
80°	133.1	170.2	218.2	244.4	253.2
82.5°	91.7	122.2	152.8	159.3	163.7
85°	56.7	72.0	82.9	80.8	80.8
87.5°	26.2	28.4	24.0	17.5	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)