

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: P259476

Luminaire Tested: **22CZ-LD5-39-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4080.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

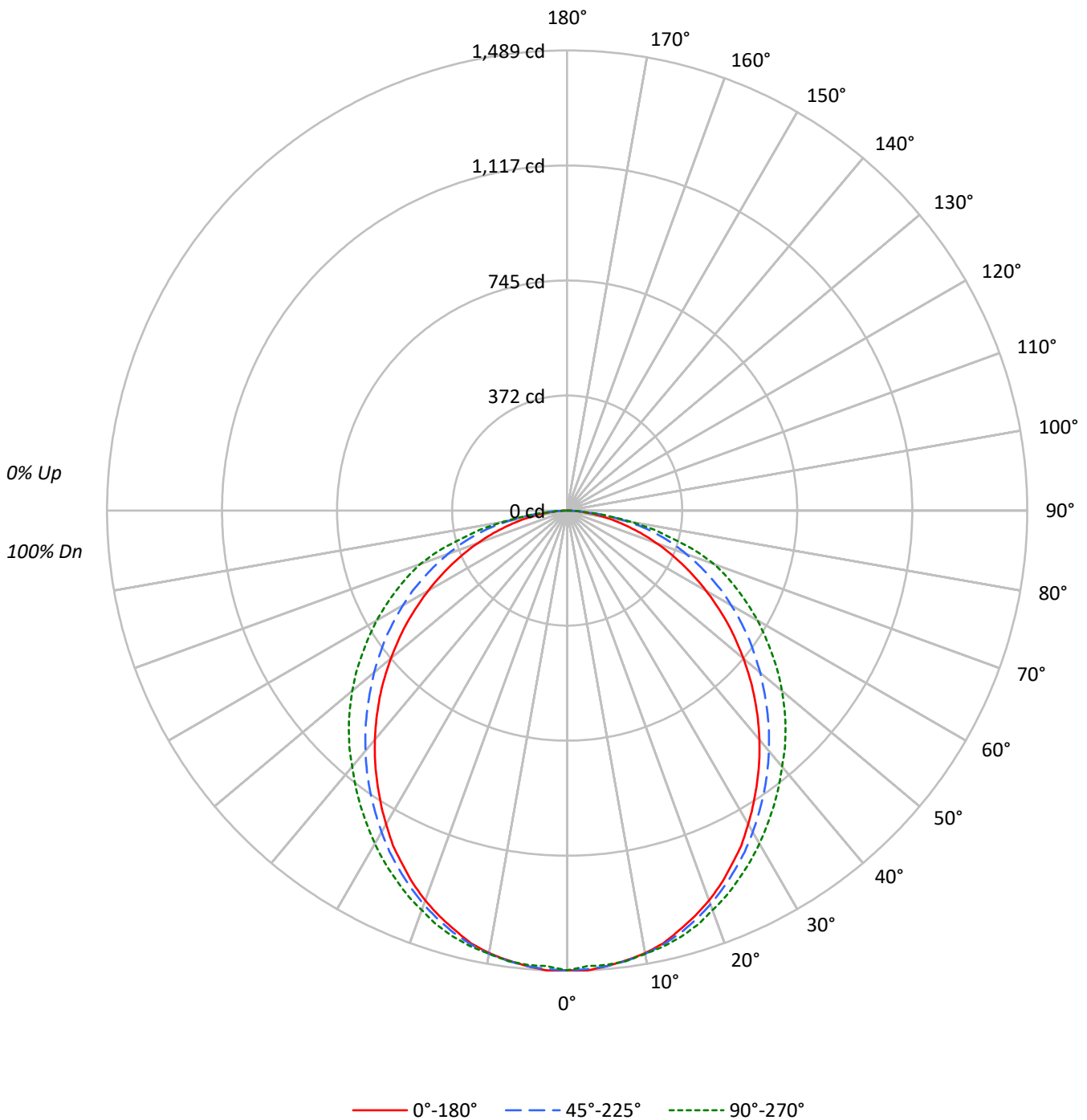
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58					58			
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4003	4003	4003
5°	3997	3997	3986
10°	3973	3979	3979
15°	3914	3942	3975
20°	3844	3883	3940
25°	3747	3811	3904
30°	3641	3733	3867
35°	3521	3650	3830
40°	3401	3566	3800
45°	3266	3483	3803
50°	3118	3413	3798
55°	2970	3356	3797
60°	2795	3301	3829
65°	2620	3257	3881
70°	2421	3223	3978
75°	2180	3199	3688
80°	1914	2975	3219
85°	1575	2238	1998



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	3.4
10°-20°	399.0	9.8
20°-30°	592.6	14.5
30°-40°	697.6	17.1
40°-50°	711.2	17.4
50°-60°	641.4	15.7
60°-70°	505.2	12.4
70°-80°	311.6	7.6
80°-90°	80.9	2.0
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°	1132.1	27.7
0°-40°	1829.7	44.8
0°-60°	3182.2	78.0
0°-90°	4080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1480	1482	1480	1478	1476	140
15°	1405	1411	1415	1423	1427	396
25°	1262	1270	1284	1305	1315	582
35°	1072	1084	1111	1146	1166	671
45°	858	872	915	970	999	662
55°	633	654	715	780	809	565
65°	412	441	512	576	610	408
75°	210	245	308	343	355	224
85°	51	65	72	69	65	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1487.4	1487.4	1487.4	1487.4	1487.4
2.5°	1489.4	1489.4	1485.4	1481.5	1475.6
5°	1479.6	1481.5	1479.6	1477.6	1475.6
7.5°	1467.8	1469.8	1469.8	1469.8	1469.8
10°	1454.1	1456.0	1456.0	1456.0	1456.0
12.5°	1434.5	1436.4	1438.4	1440.4	1444.3
15°	1405.1	1411.0	1414.9	1422.7	1426.7
17.5°	1375.7	1381.6	1387.5	1397.3	1405.1
20°	1342.4	1346.3	1356.1	1367.9	1375.7
22.5°	1305.2	1311.0	1320.8	1336.5	1348.3
25°	1262.0	1269.9	1283.6	1305.2	1314.9
27.5°	1220.9	1226.8	1244.4	1267.9	1281.6
30°	1171.9	1179.7	1201.3	1230.7	1244.4
32.5°	1122.9	1132.7	1156.2	1189.5	1205.2
35°	1071.9	1083.7	1111.1	1146.4	1166.0
37.5°	1021.0	1032.8	1064.1	1103.3	1124.9
40°	968.1	979.8	1015.1	1058.2	1081.7
42.5°	913.2	926.9	966.1	1015.1	1042.6
45°	858.3	872.1	915.2	970.0	999.4
47.5°	801.5	817.2	864.2	925.0	954.4
50°	744.7	762.3	815.2	877.9	907.3
52.5°	687.8	707.4	764.3	828.9	860.3
55°	633.0	654.5	715.3	780.0	809.4
57.5°	574.2	599.7	664.3	727.0	760.4
60°	519.3	546.8	613.4	676.1	711.4
62.5°	464.4	493.8	564.4	627.1	660.4
65°	411.5	440.9	511.5	576.1	609.5
67.5°	358.6	391.9	460.5	525.2	558.5
70°	307.7	342.9	409.6	472.3	505.6
72.5°	258.7	294.0	360.6	419.4	439.0
75°	209.7	245.0	307.7	342.9	354.7
77.5°	164.6	197.9	252.8	274.4	290.0
80°	123.5	152.9	192.0	205.8	207.7
82.5°	84.3	109.7	133.3	135.2	133.3
85°	51.0	64.7	72.5	68.6	64.7
87.5°	23.5	25.5	23.5	15.7	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)