

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: P259266

Luminaire Tested: **22CZ-LD5-44-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259266
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-L93050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4126.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

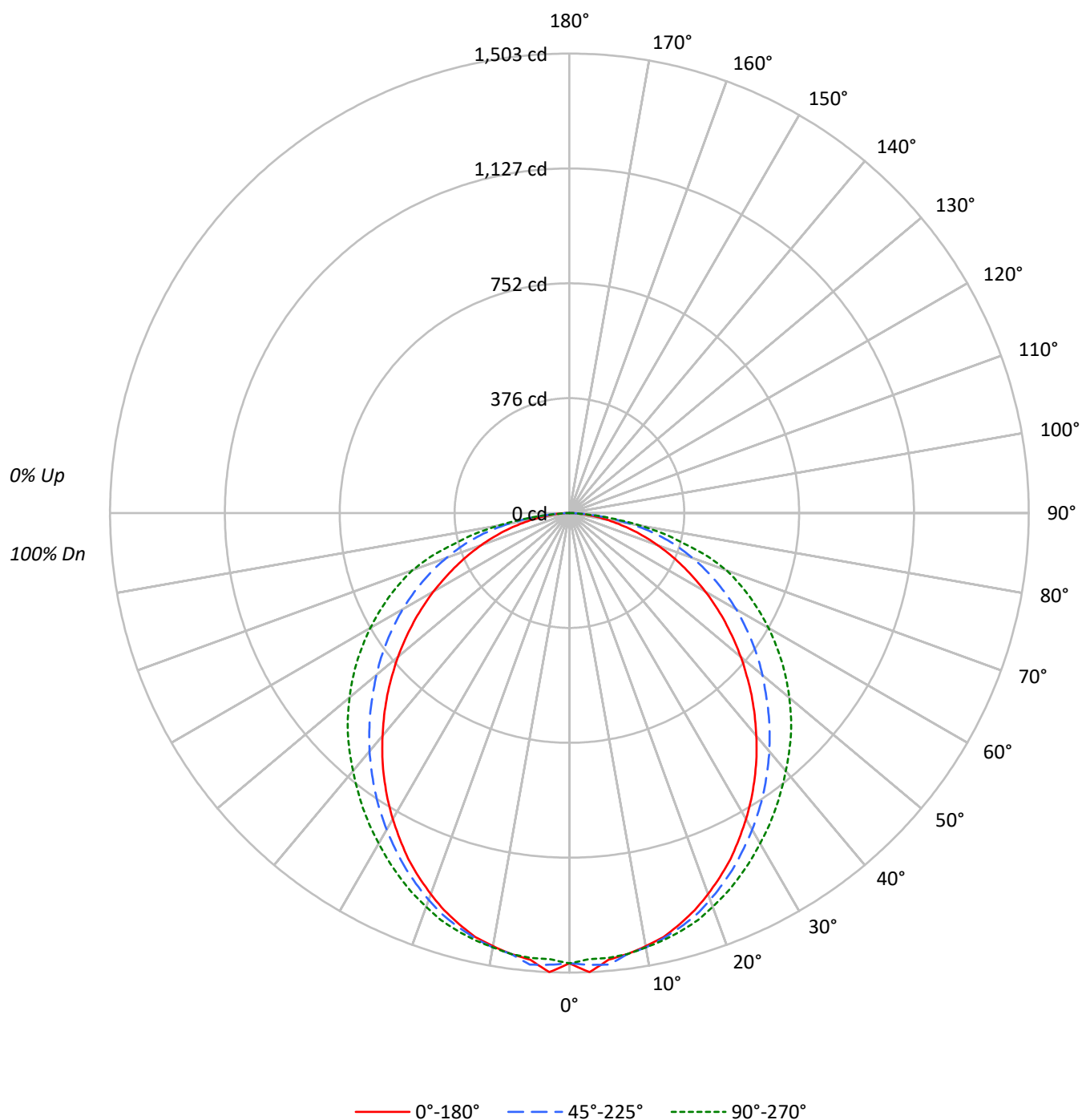
Input Watts (W): 36.049032
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58		
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43		
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37		
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3963	3963	3963
5°	3962	4005	3946
10°	3931	3942	3942
15°	3879	3907	3941
20°	3798	3855	3924
25°	3706	3789	3902
30°	3591	3716	3878
35°	3474	3645	3869
40°	3341	3574	3869
45°	3207	3505	3902
50°	3066	3452	3931
55°	2918	3417	3982
60°	2764	3391	4049
65°	2593	3373	4152
70°	2415	3363	4294
75°	2191	3358	4068
80°	1897	3109	3606
85°	1612	2353	2291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	3.4
10°-20°	395.7	9.6
20°-30°	588.6	14.3
30°-40°	696.1	16.9
40°-50°	715.5	17.3
50°-60°	653.8	15.8
60°-70°	523.0	12.7
70°-80°	328.2	8.0
80°-90°	85.5	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°	1123.9	27.2
0°-40°	1820.0	44.1
0°-60°	3189.3	77.3
0°-90°	4126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1467	1467	1483	1473	1461	139
15°	1392	1394	1402	1410	1414	392
25°	1248	1256	1276	1298	1314	574
35°	1057	1071	1110	1152	1178	661
45°	843	865	921	989	1025	650
55°	622	652	728	809	849	556
65°	407	443	530	610	652	404
75°	211	251	323	371	391	224
85°	52	66	76	74	74	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1472.7	1472.7	1472.7	1472.7	1472.7
2.5°	1502.8	1496.8	1478.7	1466.7	1460.7
5°	1466.7	1466.7	1482.7	1472.7	1460.7
7.5°	1454.7	1454.7	1454.7	1484.7	1454.7
10°	1438.6	1440.6	1442.6	1454.7	1442.6
12.5°	1420.5	1420.5	1424.6	1428.6	1430.6
15°	1392.5	1394.5	1402.5	1410.5	1414.5
17.5°	1362.4	1368.4	1378.4	1388.4	1396.5
20°	1326.2	1334.3	1346.3	1362.4	1370.4
22.5°	1288.1	1296.1	1312.2	1330.3	1344.3
25°	1248.0	1256.0	1276.1	1298.2	1314.2
27.5°	1201.8	1211.9	1236.0	1266.0	1282.1
30°	1155.7	1167.7	1195.8	1229.9	1248.0
32.5°	1107.5	1121.6	1153.7	1191.8	1213.9
35°	1057.4	1071.4	1109.5	1151.7	1177.8
37.5°	1005.2	1021.3	1063.4	1111.6	1139.6
40°	951.0	969.1	1017.3	1069.4	1101.5
42.5°	896.9	916.9	969.1	1031.3	1063.4
45°	842.7	864.8	920.9	989.2	1025.3
47.5°	786.5	812.6	870.8	947.0	983.1
50°	732.3	758.4	824.6	902.9	939.0
52.5°	676.2	706.3	776.5	856.7	894.9
55°	622.0	652.1	728.3	808.6	848.7
57.5°	567.8	597.9	678.2	760.4	800.6
60°	513.6	545.7	630.0	710.3	752.4
62.5°	459.5	493.6	579.9	662.1	702.2
65°	407.3	443.4	529.7	610.0	652.1
67.5°	357.1	395.3	479.5	557.8	599.9
70°	307.0	345.1	427.4	503.6	545.7
72.5°	258.8	296.9	377.2	445.4	477.5
75°	210.7	250.8	323.0	371.2	391.3
77.5°	164.5	204.7	266.9	299.0	321.0
80°	122.4	156.5	200.6	224.7	232.7
82.5°	84.3	112.4	140.4	146.5	150.5
85°	52.2	66.2	76.2	74.2	74.2
87.5°	24.1	26.1	22.1	16.1	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)