

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: P259404

Luminaire Tested: **22CZ-LD5-44-S-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259404
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-LD5-44-S-UNV-L83050-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: 4777.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

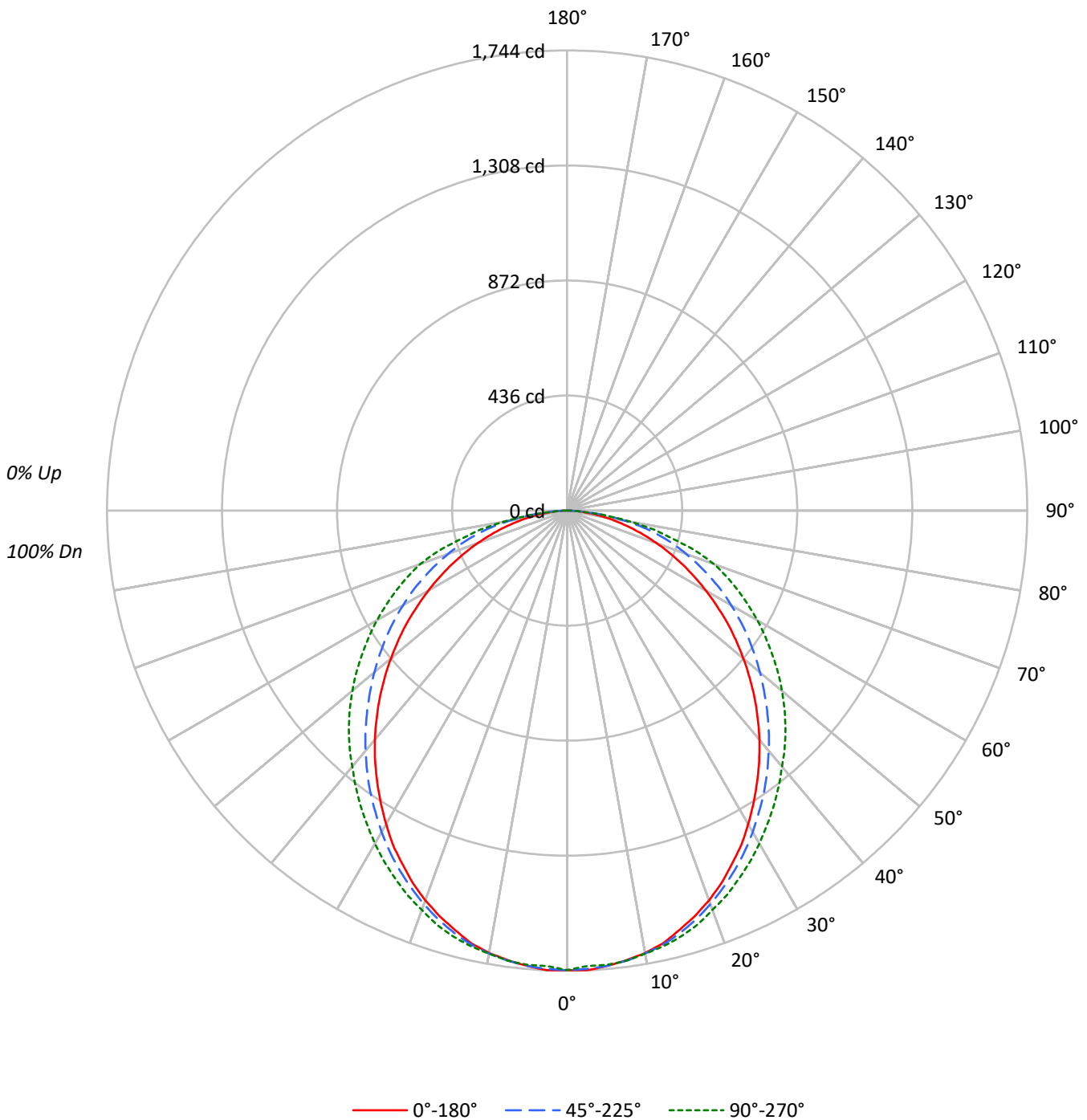
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4686	4686	4686
5°	4679	4679	4667
10°	4652	4658	4658
15°	4583	4615	4654
20°	4501	4547	4613
25°	4387	4462	4571
30°	4263	4370	4527
35°	4123	4274	4485
40°	3982	4175	4449
45°	3825	4078	4453
50°	3650	3996	4447
55°	3477	3929	4446
60°	3272	3865	4483
65°	3068	3813	4544
70°	2834	3773	4658
75°	2552	3745	4318
80°	2241	3485	3769
85°	1843	2621	2337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	3.4
10°-20°	467.2	9.8
20°-30°	693.9	14.5
30°-40°	816.7	17.1
40°-50°	832.7	17.4
50°-60°	751.0	15.7
60°-70°	591.5	12.4
70°-80°	364.9	7.6
80°-90°	94.7	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°	1325.5	27.7
0°-40°	2142.2	44.8
0°-60°	3725.9	78.0
0°-90°	4777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4777.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1732	1735	1732	1730	1728	164
15°	1645	1652	1657	1666	1670	464
25°	1478	1487	1503	1528	1540	681
35°	1255	1269	1301	1342	1365	785
45°	1005	1021	1072	1136	1170	775
55°	741	766	838	913	948	661
65°	482	516	599	675	714	477
75°	246	287	360	402	415	262
85°	60	76	85	80	76	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1741.5	1741.5	1741.5	1741.5	1741.5
2.5°	1743.8	1743.8	1739.2	1734.6	1727.7
5°	1732.3	1734.6	1732.3	1730.0	1727.7
7.5°	1718.6	1720.8	1720.8	1720.8	1720.8
10°	1702.5	1704.8	1704.8	1704.8	1704.8
12.5°	1679.5	1681.8	1684.1	1686.4	1691.0
15°	1645.1	1652.0	1656.6	1665.8	1670.4
17.5°	1610.7	1617.6	1624.5	1636.0	1645.1
20°	1571.7	1576.3	1587.8	1601.5	1610.7
22.5°	1528.1	1535.0	1546.5	1564.8	1578.6
25°	1477.6	1486.8	1502.9	1528.1	1539.6
27.5°	1429.5	1436.3	1457.0	1484.5	1500.6
30°	1372.1	1381.3	1406.5	1440.9	1457.0
32.5°	1314.7	1326.2	1353.7	1392.7	1411.1
35°	1255.1	1268.8	1301.0	1342.3	1365.2
37.5°	1195.4	1209.2	1245.9	1291.8	1317.0
40°	1133.5	1147.2	1188.5	1239.0	1266.5
42.5°	1069.2	1085.3	1131.2	1188.5	1220.7
45°	1005.0	1021.0	1071.5	1135.8	1170.2
47.5°	938.4	956.8	1011.9	1083.0	1117.4
50°	871.9	892.5	954.5	1027.9	1062.3
52.5°	805.4	828.3	894.8	970.6	1007.3
55°	741.1	766.4	837.5	913.2	947.6
57.5°	672.3	702.1	777.8	851.2	890.3
60°	608.0	640.2	718.2	791.6	832.9
62.5°	543.8	578.2	660.8	734.2	773.2
65°	481.8	516.3	598.9	674.6	713.6
67.5°	419.9	458.9	539.2	614.9	653.9
70°	360.2	401.5	479.5	553.0	592.0
72.5°	302.9	344.2	422.2	491.0	514.0
75°	245.5	286.8	360.2	401.5	415.3
77.5°	192.7	231.7	296.0	321.2	339.6
80°	144.6	179.0	224.9	240.9	243.2
82.5°	98.7	128.5	156.0	158.3	156.0
85°	59.7	75.7	84.9	80.3	75.7
87.5°	27.5	29.8	27.5	18.4	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)