

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: P259402

Luminaire Tested: **22CZ-LD5-44-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259402
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4506.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

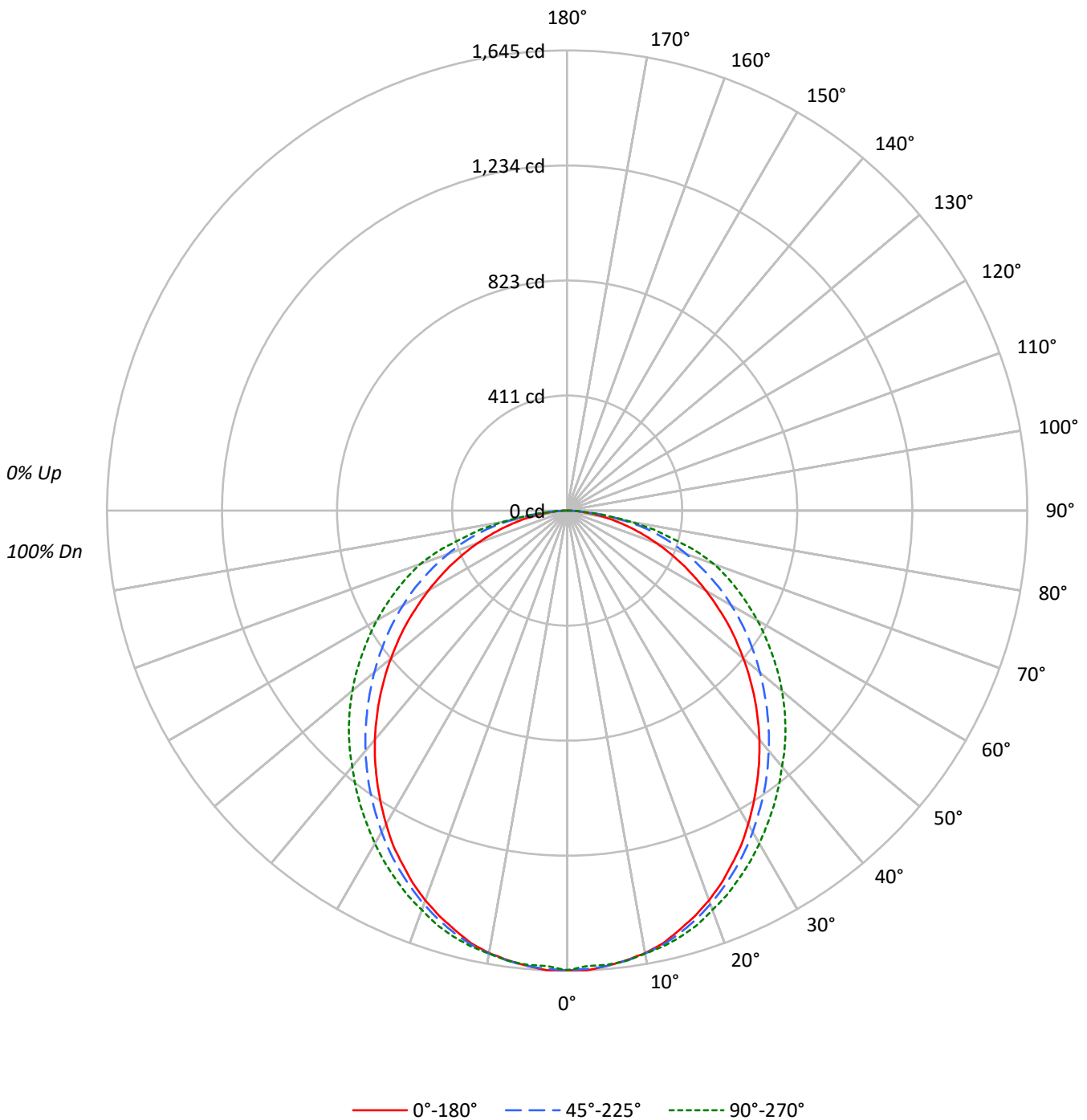
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4420	4420	4420
5°	4414	4414	4402
10°	4388	4394	4394
15°	4323	4353	4389
20°	4245	4289	4351
25°	4138	4209	4312
30°	4022	4122	4270
35°	3889	4031	4231
40°	3756	3938	4197
45°	3608	3846	4201
50°	3443	3769	4195
55°	3280	3706	4194
60°	3087	3646	4228
65°	2894	3597	4286
70°	2674	3559	4393
75°	2408	3533	4073
80°	2114	3287	3555
85°	1738	2473	2205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	3.4
10°-20°	440.7	9.8
20°-30°	654.5	14.5
30°-40°	770.4	17.1
40°-50°	785.4	17.4
50°-60°	708.4	15.7
60°-70°	558.0	12.4
70°-80°	344.2	7.6
80°-90°	89.3	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°	1250.3	27.7
0°-40°	2020.7	44.8
0°-60°	3514.5	78.0
0°-90°	4506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1634	1636	1634	1632	1630	155
15°	1552	1558	1563	1571	1576	438
25°	1394	1402	1418	1441	1452	642
35°	1184	1197	1227	1266	1288	741
45°	948	963	1011	1071	1104	731
55°	699	723	790	861	894	624
65°	454	487	565	636	673	450
75°	232	270	340	379	392	247
85°	56	71	80	76	71	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1642.7	1642.7	1642.7	1642.7	1642.7
2.5°	1644.9	1644.9	1640.5	1636.2	1629.7
5°	1634.0	1636.2	1634.0	1631.9	1629.7
7.5°	1621.1	1623.2	1623.2	1623.2	1623.2
10°	1605.9	1608.1	1608.1	1608.1	1608.1
12.5°	1584.3	1586.4	1588.6	1590.8	1595.1
15°	1551.8	1558.3	1562.6	1571.3	1575.6
17.5°	1519.3	1525.8	1532.3	1543.1	1551.8
20°	1482.5	1486.9	1497.7	1510.7	1519.3
22.5°	1441.4	1447.9	1458.7	1476.1	1489.0
25°	1393.8	1402.5	1417.6	1441.4	1452.2
27.5°	1348.4	1354.9	1374.3	1400.3	1415.5
30°	1294.3	1302.9	1326.7	1359.2	1374.3
32.5°	1240.1	1251.0	1276.9	1313.7	1331.0
35°	1183.9	1196.9	1227.2	1266.1	1287.8
37.5°	1127.6	1140.6	1175.2	1218.5	1242.3
40°	1069.2	1082.1	1121.1	1168.7	1194.7
42.5°	1008.6	1023.7	1067.0	1121.1	1151.4
45°	948.0	963.1	1010.7	1071.3	1103.8
47.5°	885.2	902.5	954.5	1021.5	1054.0
50°	822.4	841.9	900.3	969.6	1002.1
52.5°	759.7	781.3	844.1	915.5	950.1
55°	699.1	722.9	790.0	861.4	893.9
57.5°	634.1	662.3	733.7	803.0	839.7
60°	573.5	603.8	677.4	746.7	785.6
62.5°	512.9	545.4	623.3	692.6	729.4
65°	454.5	487.0	564.9	636.3	673.1
67.5°	396.1	432.9	508.6	580.0	616.8
70°	339.8	378.8	452.3	521.6	558.4
72.5°	285.7	324.6	398.2	463.2	484.8
75°	231.6	270.5	339.8	378.8	391.7
77.5°	181.8	218.6	279.2	303.0	320.3
80°	136.4	168.8	212.1	227.3	229.4
82.5°	93.1	121.2	147.2	149.3	147.2
85°	56.3	71.4	80.1	75.8	71.4
87.5°	26.0	28.1	26.0	17.3	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)