

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: P259481

Luminaire Tested: **22CZ-LD5-44-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259481
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-L82765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4135.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

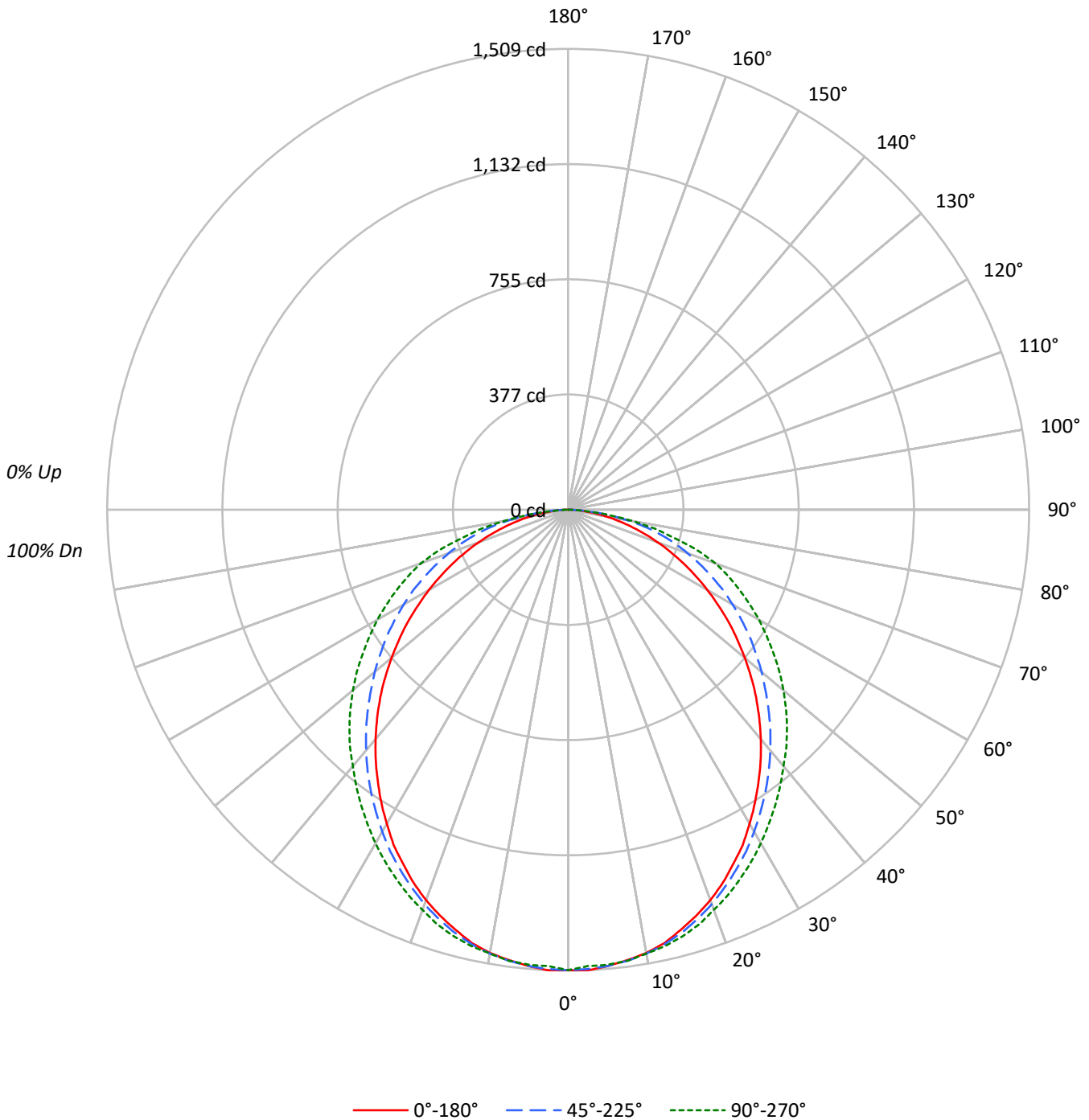
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4057	4057	4057
5°	4051	4051	4040
10°	4027	4032	4032
15°	3967	3995	4028
20°	3896	3936	3993
25°	3798	3863	3957
30°	3691	3783	3919
35°	3569	3699	3882
40°	3446	3614	3851
45°	3311	3530	3855
50°	3159	3459	3850
55°	3010	3401	3849
60°	2833	3346	3880
65°	2656	3301	3933
70°	2453	3266	4032
75°	2209	3242	3738
80°	1939	3016	3262
85°	1593	2269	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	3.4
10°-20°	404.4	9.8
20°-30°	600.6	14.5
30°-40°	707.0	17.1
40°-50°	720.7	17.4
50°-60°	650.0	15.7
60°-70°	512.0	12.4
70°-80°	315.8	7.6
80°-90°	82.0	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°	1147.4	27.7
0°-40°	1854.3	44.8
0°-60°	3225.1	78.0
0°-90°	4135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1500	1502	1500	1498	1496	142
15°	1424	1430	1434	1442	1446	401
25°	1279	1287	1301	1323	1333	589
35°	1086	1098	1126	1162	1182	680
45°	870	884	928	983	1013	671
55°	642	663	725	790	820	572
65°	417	447	518	584	618	413
75°	212	248	312	348	360	227
85°	52	66	74	70	66	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.5	1507.5	1507.5	1507.5	1507.5
2.5°	1509.4	1509.4	1505.5	1501.5	1495.5
5°	1499.5	1501.5	1499.5	1497.5	1495.5
7.5°	1487.6	1489.6	1489.6	1489.6	1489.6
10°	1473.7	1475.7	1475.7	1475.7	1475.7
12.5°	1453.8	1455.8	1457.8	1459.8	1463.8
15°	1424.0	1430.0	1434.0	1441.9	1445.9
17.5°	1394.2	1400.2	1406.2	1416.1	1424.0
20°	1360.5	1364.5	1374.4	1386.3	1394.2
22.5°	1322.7	1328.7	1338.6	1354.5	1366.4
25°	1279.1	1287.0	1300.9	1322.7	1332.7
27.5°	1237.3	1243.3	1261.2	1285.0	1298.9
30°	1187.7	1195.6	1217.5	1247.3	1261.2
32.5°	1138.0	1148.0	1171.8	1205.6	1221.5
35°	1086.4	1098.3	1126.1	1161.9	1181.7
37.5°	1034.8	1046.7	1078.5	1118.2	1140.0
40°	981.1	993.1	1028.8	1072.5	1096.3
42.5°	925.5	939.4	979.1	1028.8	1056.6
45°	869.9	883.8	927.5	983.1	1012.9
47.5°	812.3	828.2	875.9	937.4	967.2
50°	754.7	772.6	826.2	889.8	919.6
52.5°	697.1	717.0	774.6	840.1	871.9
55°	641.5	663.4	724.9	790.5	820.3
57.5°	581.9	607.7	673.3	736.8	770.6
60°	526.3	554.1	621.7	685.2	721.0
62.5°	470.7	500.5	572.0	635.6	669.3
65°	417.1	446.9	518.4	583.9	617.7
67.5°	363.5	397.2	466.7	532.3	566.0
70°	311.8	347.6	415.1	478.7	512.4
72.5°	262.2	297.9	365.4	425.0	444.9
75°	212.5	248.3	311.8	347.6	359.5
77.5°	166.8	200.6	256.2	278.1	293.9
80°	125.1	154.9	194.6	208.5	210.5
82.5°	85.4	111.2	135.1	137.0	135.1
85°	51.6	65.5	73.5	69.5	65.5
87.5°	23.8	25.8	23.8	15.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)