

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: P259264

Luminaire Tested: **22CZ-LD5-44-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259264
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-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3755.0 lumens
Efficiency: N/A
Efficacy: 106.5 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

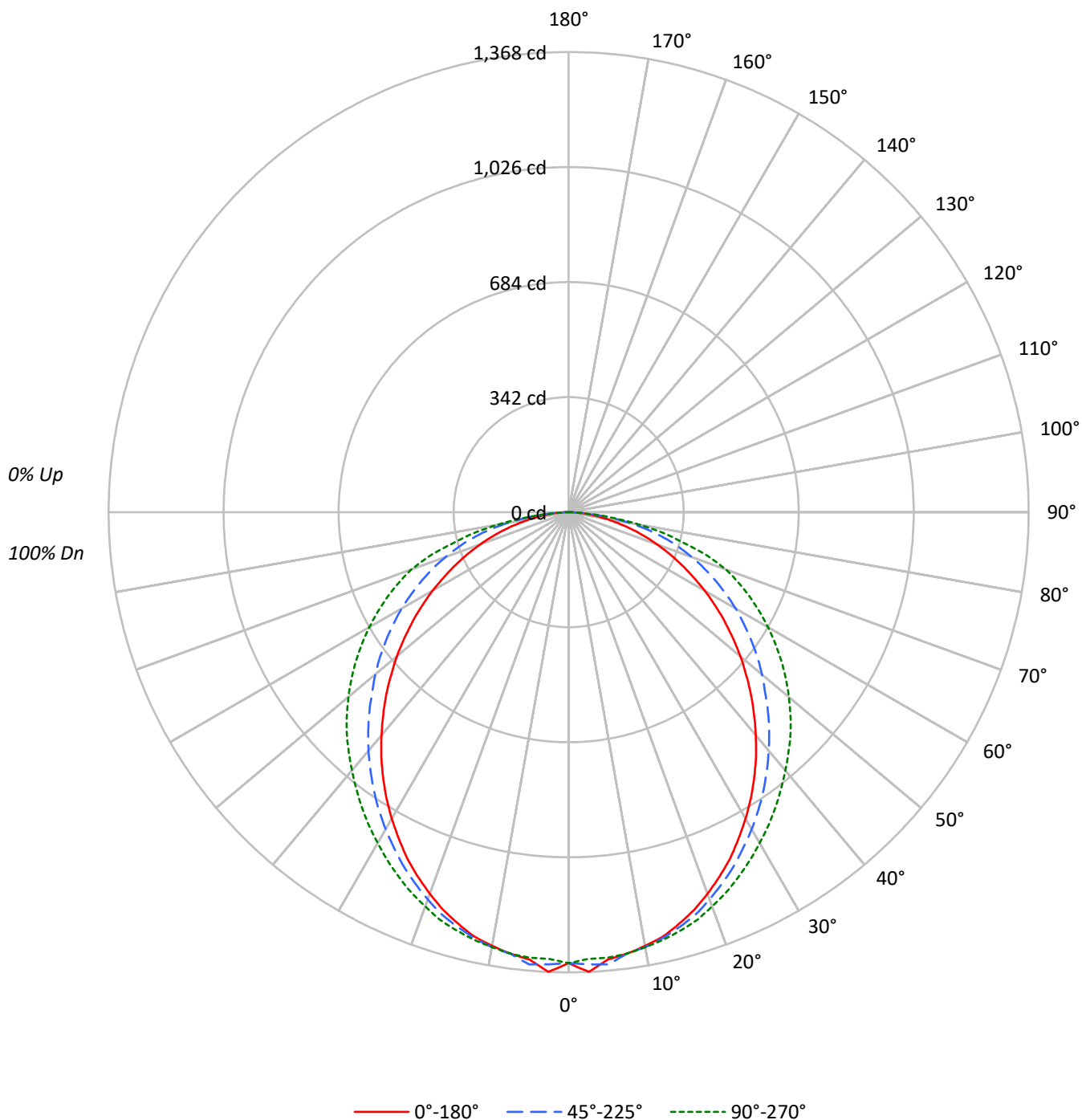
Input Watts (W): 35.253324
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3607	3607	3607
5°	3606	3645	3591
10°	3577	3587	3587
15°	3530	3556	3586
20°	3456	3509	3572
25°	3372	3448	3551
30°	3268	3382	3529
35°	3161	3317	3521
40°	3040	3252	3522
45°	2919	3189	3551
50°	2790	3142	3578
55°	2656	3110	3624
60°	2516	3086	3686
65°	2360	3070	3779
70°	2198	3060	3908
75°	1993	3057	3702
80°	1726	2830	3282
85°	1467	2143	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	3.4
10°-20°	360.1	9.6
20°-30°	535.6	14.3
30°-40°	633.5	16.9
40°-50°	651.2	17.3
50°-60°	595.0	15.8
60°-70°	476.0	12.7
70°-80°	298.7	8.0
80°-90°	77.8	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°	1022.9	27.2
0°-40°	1656.4	44.1
0°-60°	2902.5	77.3
0°-90°	3755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1335	1335	1349	1340	1329	127
15°	1267	1269	1276	1284	1287	357
25°	1136	1143	1161	1181	1196	522
35°	962	975	1010	1048	1072	601
45°	767	787	838	900	933	591
55°	566	594	663	736	772	506
65°	371	404	482	555	594	368
75°	192	228	294	338	356	204
85°	48	60	69	68	68	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.3	1340.3	1340.3	1340.3	1340.3
2.5°	1367.7	1362.2	1345.8	1334.8	1329.3
5°	1334.8	1334.8	1349.4	1340.3	1329.3
7.5°	1323.9	1323.9	1323.9	1351.2	1323.9
10°	1309.2	1311.1	1312.9	1323.9	1312.9
12.5°	1292.8	1292.8	1296.5	1300.1	1301.9
15°	1267.2	1269.1	1276.4	1283.7	1287.3
17.5°	1239.9	1245.3	1254.5	1263.6	1270.9
20°	1207.0	1214.3	1225.2	1239.9	1247.2
22.5°	1172.3	1179.6	1194.2	1210.6	1223.4
25°	1135.8	1143.1	1161.3	1181.4	1196.0
27.5°	1093.8	1102.9	1124.8	1152.2	1166.8
30°	1051.8	1062.7	1088.3	1119.3	1135.8
32.5°	1008.0	1020.7	1050.0	1084.6	1104.7
35°	962.3	975.1	1009.8	1048.1	1071.9
37.5°	914.8	929.4	967.8	1011.6	1037.2
40°	865.5	882.0	925.8	973.3	1002.5
42.5°	816.2	834.5	882.0	938.6	967.8
45°	766.9	787.0	838.1	900.2	933.1
47.5°	715.8	739.5	792.5	861.9	894.7
50°	666.5	690.2	750.5	821.7	854.6
52.5°	615.4	642.8	706.7	779.7	814.4
55°	566.1	593.5	662.8	735.9	772.4
57.5°	516.8	544.1	617.2	692.1	728.6
60°	467.5	496.7	573.4	646.4	684.8
62.5°	418.2	449.2	527.7	602.6	639.1
65°	370.7	403.5	482.1	555.1	593.5
67.5°	325.0	359.7	436.4	507.6	546.0
70°	279.4	314.1	388.9	458.3	496.7
72.5°	235.6	270.2	343.3	405.4	434.6
75°	191.7	228.3	294.0	337.8	356.1
77.5°	149.7	186.3	242.9	272.1	292.2
80°	111.4	142.4	182.6	204.5	211.8
82.5°	76.7	102.3	127.8	133.3	137.0
85°	47.5	60.3	69.4	67.6	67.6
87.5°	21.9	23.7	20.1	14.6	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)