

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: P277484

Luminaire Tested: **22CZ2-44HE-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4014.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

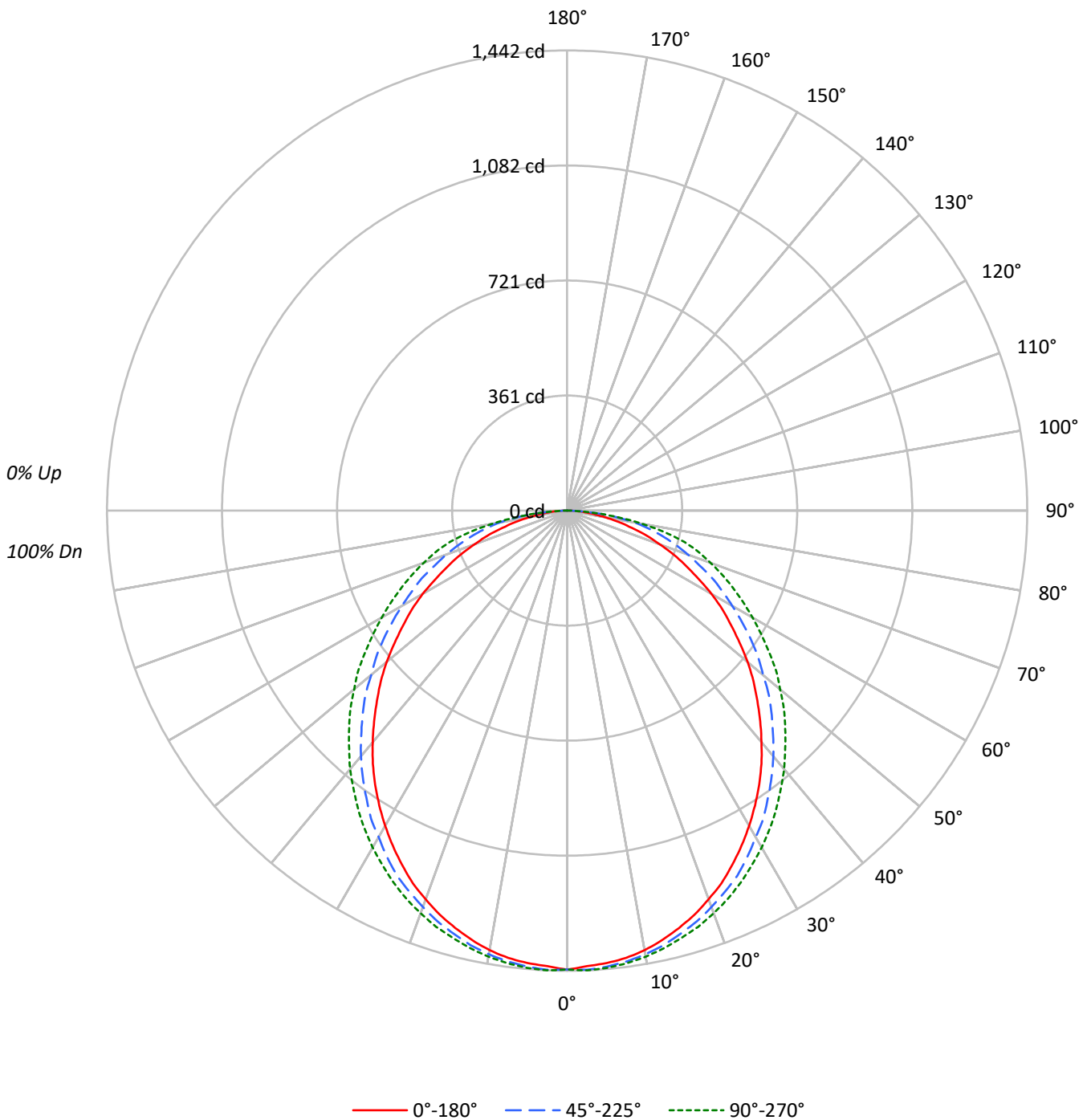
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	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	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3870	3870	3870
5°	3845	3875	3885
10°	3823	3859	3879
15°	3772	3824	3861
20°	3711	3786	3845
25°	3637	3748	3820
30°	3544	3672	3788
35°	3445	3605	3753
40°	3329	3533	3717
45°	3207	3450	3678
50°	3089	3356	3646
55°	2943	3295	3620
60°	2812	3215	3609
65°	2623	3196	3649
70°	2416	3168	3758
75°	2181	3213	3953
80°	1886	3309	3715
85°	1562	2776	2776



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	3.4
10°-20°	387.1	9.6
20°-30°	579.2	14.4
30°-40°	685.9	17.1
40°-50°	699.0	17.4
50°-60°	626.5	15.6
60°-70°	490.5	12.2
70°-80°	316.3	7.9
80°-90°	93.4	2.3
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°	1102.3	27.5
0°-40°	1788.2	44.5
0°-60°	3113.7	77.6
0°-90°	4014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1423	1427	1435	1436	1438	135
15°	1354	1362	1373	1384	1386	382
25°	1225	1236	1262	1279	1287	564
35°	1049	1062	1098	1131	1142	655
45°	843	862	906	953	966	651
55°	627	648	702	751	772	563
65°	412	436	502	551	573	409
75°	210	242	309	362	380	225
85°	51	69	90	90	90	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.3	1438.3	1438.3	1438.3	1438.3
2.5°	1429.0	1432.7	1440.2	1442.1	1442.1
5°	1423.4	1427.1	1434.6	1436.5	1438.3
7.5°	1414.0	1415.9	1425.2	1429.0	1430.8
10°	1399.0	1402.8	1412.1	1417.7	1419.6
12.5°	1378.4	1384.0	1395.3	1402.8	1404.6
15°	1354.1	1361.6	1372.8	1384.0	1385.9
17.5°	1327.8	1335.3	1350.3	1363.4	1367.2
20°	1296.0	1305.4	1322.2	1337.2	1342.8
22.5°	1264.2	1271.7	1292.3	1311.0	1316.6
25°	1224.8	1236.1	1262.3	1279.1	1286.6
27.5°	1183.6	1196.7	1223.0	1245.4	1252.9
30°	1140.6	1153.7	1181.8	1209.9	1219.2
32.5°	1095.6	1110.6	1144.3	1172.4	1181.8
35°	1048.8	1061.9	1097.5	1131.2	1142.4
37.5°	1000.1	1011.3	1052.5	1088.1	1099.4
40°	947.7	962.6	1005.7	1046.9	1058.2
42.5°	895.2	912.1	955.1	1000.1	1011.3
45°	842.8	861.5	906.5	953.3	966.4
47.5°	792.2	807.2	857.8	902.7	921.4
50°	737.9	752.9	801.6	852.1	870.9
52.5°	681.7	702.3	754.8	803.4	825.9
55°	627.4	648.0	702.3	751.0	771.6
57.5°	576.8	593.7	649.9	700.4	721.0
60°	522.5	537.5	597.4	651.7	670.5
62.5°	464.5	486.9	548.7	599.3	621.8
65°	412.0	436.4	501.9	550.6	573.1
67.5°	363.3	385.8	449.5	501.9	526.3
70°	307.1	337.1	402.7	455.1	477.6
72.5°	262.2	288.4	355.8	408.3	432.6
75°	209.8	241.6	309.0	361.5	380.2
77.5°	166.7	198.5	262.2	303.4	312.8
80°	121.7	153.6	213.5	234.1	239.7
82.5°	82.4	112.4	153.6	159.2	161.1
85°	50.6	69.3	89.9	89.9	89.9
87.5°	24.3	28.1	31.8	30.0	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)