

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: P259307

Luminaire Tested: **22CZ-LD5-39-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259307
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-LD5-39-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3931.0 lumens
Efficiency: N/A
Efficacy: 128.9 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

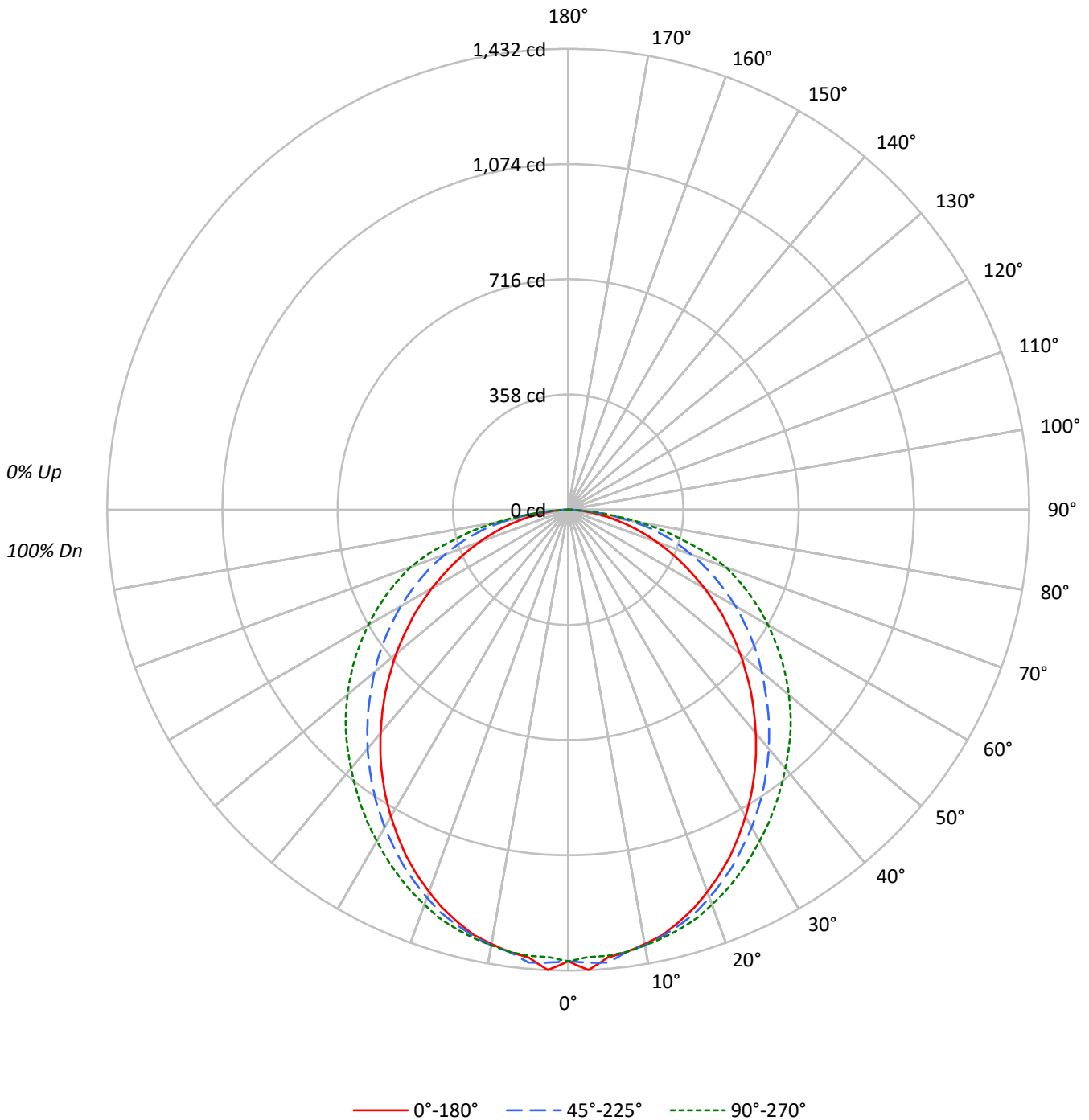
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3776	3776	3776
5°	3775	3816	3759
10°	3745	3756	3756
15°	3696	3723	3755
20°	3619	3673	3739
25°	3530	3610	3718
30°	3421	3540	3695
35°	3309	3473	3686
40°	3183	3405	3687
45°	3056	3339	3717
50°	2921	3289	3745
55°	2780	3255	3794
60°	2634	3230	3858
65°	2471	3214	3956
70°	2301	3204	4091
75°	2087	3200	3876
80°	1807	2963	3436
85°	1535	2242	2183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	3.4
10°-20°	377.0	9.6
20°-30°	560.8	14.3
30°-40°	663.2	16.9
40°-50°	681.7	17.3
50°-60°	622.9	15.8
60°-70°	498.3	12.7
70°-80°	312.7	8.0
80°-90°	81.4	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°	1070.8	27.2
0°-40°	1734.0	44.1
0°-60°	3038.6	77.3
0°-90°	3931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3931.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1397	1397	1413	1403	1392	133
15°	1327	1329	1336	1344	1348	374
25°	1189	1197	1216	1237	1252	547
35°	1007	1021	1057	1097	1122	630
45°	803	824	877	942	977	619
55°	593	621	694	770	809	530
65°	388	422	505	581	621	385
75°	201	239	308	354	373	213
85°	50	63	73	71	71	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.1	1403.1	1403.1	1403.1	1403.1
2.5°	1431.8	1426.0	1408.8	1397.4	1391.6
5°	1397.4	1397.4	1412.7	1403.1	1391.6
7.5°	1385.9	1385.9	1385.9	1414.6	1385.9
10°	1370.6	1372.5	1374.4	1385.9	1374.4
12.5°	1353.4	1353.4	1357.2	1361.1	1363.0
15°	1326.6	1328.6	1336.2	1343.8	1347.7
17.5°	1298.0	1303.7	1313.3	1322.8	1330.5
20°	1263.6	1271.2	1282.7	1298.0	1305.6
22.5°	1227.2	1234.9	1250.2	1267.4	1280.8
25°	1189.0	1196.7	1215.8	1236.8	1252.1
27.5°	1145.0	1154.6	1177.5	1206.2	1221.5
30°	1101.1	1112.5	1139.3	1171.8	1189.0
32.5°	1055.2	1068.6	1099.2	1135.5	1156.5
35°	1007.4	1020.8	1057.1	1097.3	1122.1
37.5°	957.7	973.0	1013.1	1059.0	1085.8
40°	906.1	923.3	969.2	1018.9	1049.5
42.5°	854.5	873.6	923.3	982.6	1013.1
45°	802.9	823.9	877.4	942.4	976.8
47.5°	749.3	774.2	829.6	902.3	936.7
50°	697.7	722.6	785.7	860.2	894.6
52.5°	644.2	672.9	739.8	816.2	852.6
55°	592.6	621.3	693.9	770.4	808.6
57.5°	541.0	569.7	646.1	724.5	762.7
60°	489.4	520.0	600.2	676.7	716.8
62.5°	437.8	470.3	552.4	630.8	669.1
65°	388.1	422.5	504.7	581.1	621.3
67.5°	340.3	376.6	456.9	531.4	571.6
70°	292.5	328.8	407.2	479.8	520.0
72.5°	246.6	282.9	359.4	424.4	455.0
75°	200.7	238.9	307.8	353.6	372.8
77.5°	156.8	195.0	254.2	284.8	305.9
80°	116.6	149.1	191.2	214.1	221.7
82.5°	80.3	107.0	133.8	139.5	143.4
85°	49.7	63.1	72.6	70.7	70.7
87.5°	22.9	24.9	21.0	15.3	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)