

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: P259395

Luminaire Tested: **22CZ-LD5-34-S-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259395
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-LD5-34-S-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3715.0 lumens
Efficiency: N/A
Efficacy: 137.7 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

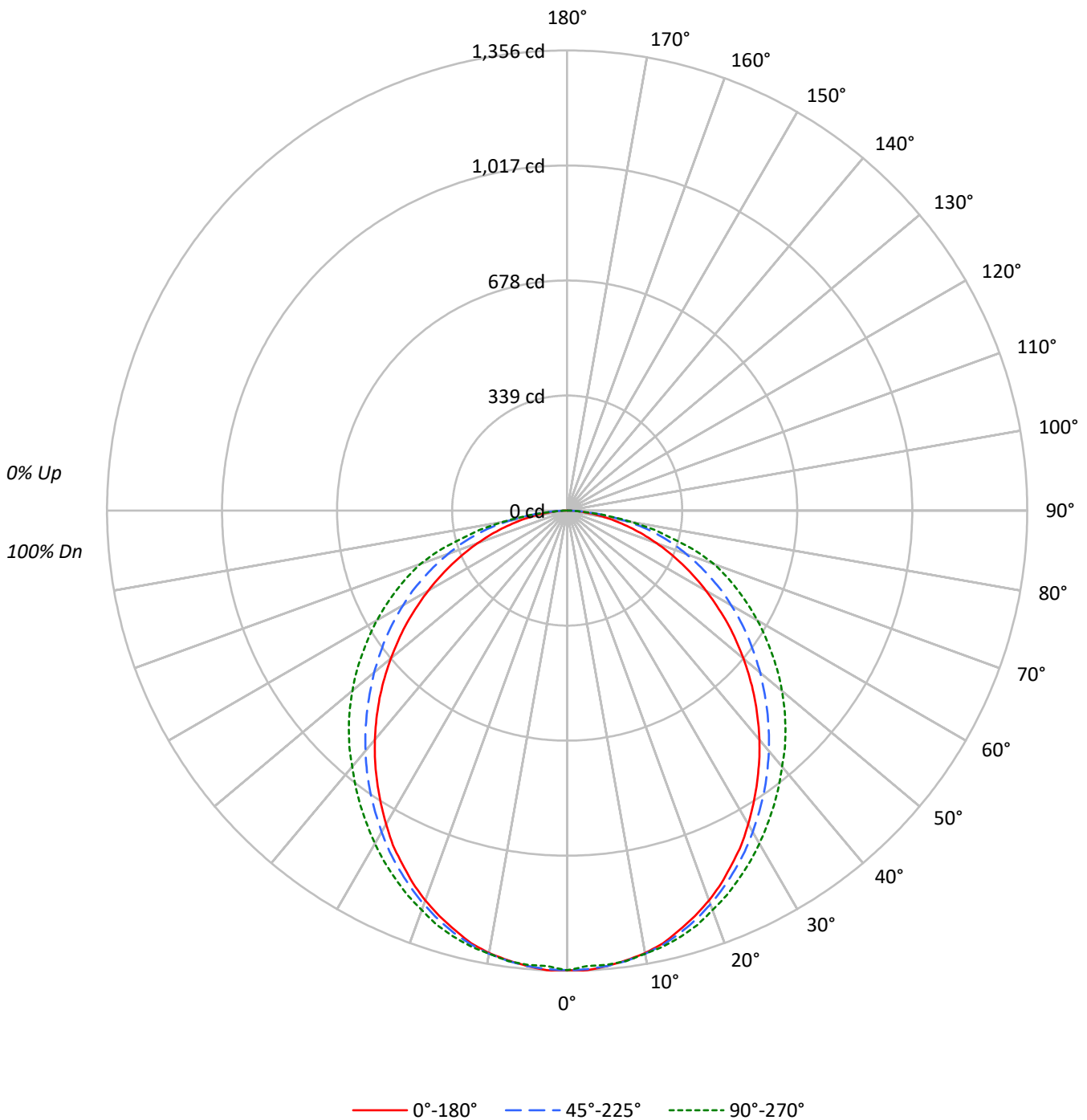
Input Watts (W): 26.97
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3644	3644	3644
5°	3639	3639	3629
10°	3618	3623	3623
15°	3564	3589	3619
20°	3500	3536	3587
25°	3412	3470	3555
30°	3316	3399	3521
35°	3207	3324	3488
40°	3097	3247	3460
45°	2974	3171	3463
50°	2839	3108	3459
55°	2704	3056	3457
60°	2545	3006	3486
65°	2386	2965	3533
70°	2204	2934	3622
75°	1985	2912	3358
80°	1742	2710	2930
85°	1433	2038	1819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	3.4
10°-20°	363.3	9.8
20°-30°	539.6	14.5
30°-40°	635.2	17.1
40°-50°	647.5	17.4
50°-60°	584.0	15.7
60°-70°	460.0	12.4
70°-80°	283.8	7.6
80°-90°	73.7	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°	1030.8	27.7
0°-40°	1666.0	44.8
0°-60°	2897.6	78.0
0°-90°	3715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1347	1349	1347	1345	1344	128
15°	1279	1285	1288	1296	1299	361
25°	1149	1156	1169	1188	1197	529
35°	976	987	1012	1044	1062	611
45°	782	794	833	883	910	602
55°	576	596	651	710	737	514
65°	375	402	466	525	555	371
75°	191	223	280	312	323	204
85°	46	59	66	62	59	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1354.3	1354.3	1354.3	1354.3	1354.3
2.5°	1356.1	1356.1	1352.6	1349.0	1343.6
5°	1347.2	1349.0	1347.2	1345.4	1343.6
7.5°	1336.5	1338.3	1338.3	1338.3	1338.3
10°	1324.0	1325.8	1325.8	1325.8	1325.8
12.5°	1306.2	1307.9	1309.7	1311.5	1315.1
15°	1279.4	1284.7	1288.3	1295.5	1299.0
17.5°	1252.6	1258.0	1263.3	1272.3	1279.4
20°	1222.3	1225.9	1234.8	1245.5	1252.6
22.5°	1188.4	1193.7	1202.7	1216.9	1227.6
25°	1149.1	1156.3	1168.8	1188.4	1197.3
27.5°	1111.7	1117.0	1133.1	1154.5	1167.0
30°	1067.1	1074.2	1093.8	1120.6	1133.1
32.5°	1022.4	1031.4	1052.8	1083.1	1097.4
35°	976.1	986.8	1011.7	1043.9	1061.7
37.5°	929.7	940.4	968.9	1004.6	1024.2
40°	881.5	892.2	924.3	963.6	985.0
42.5°	831.5	844.0	879.7	924.3	949.3
45°	781.6	794.0	833.3	883.3	910.0
47.5°	729.8	744.1	786.9	842.2	869.0
50°	678.1	694.1	742.3	799.4	826.2
52.5°	626.3	644.2	695.9	754.8	783.3
55°	576.4	596.0	651.3	710.2	736.9
57.5°	522.8	546.0	604.9	662.0	692.3
60°	472.9	497.8	558.5	615.6	647.7
62.5°	422.9	449.7	513.9	571.0	601.3
65°	374.7	401.5	465.7	524.6	554.9
67.5°	326.5	356.9	419.3	478.2	508.5
70°	280.1	312.3	372.9	430.0	460.4
72.5°	235.5	267.7	328.3	381.9	399.7
75°	190.9	223.0	280.1	312.3	323.0
77.5°	149.9	180.2	230.2	249.8	264.1
80°	112.4	139.2	174.9	187.4	189.1
82.5°	76.7	99.9	121.3	123.1	121.3
85°	46.4	58.9	66.0	62.5	58.9
87.5°	21.4	23.2	21.4	14.3	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)