

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: P259397

Luminaire Tested: **22CZ-LD5-39-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259397
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-LD5-39-S-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4017.0 lumens
Efficiency: N/A
Efficacy: 133.3 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

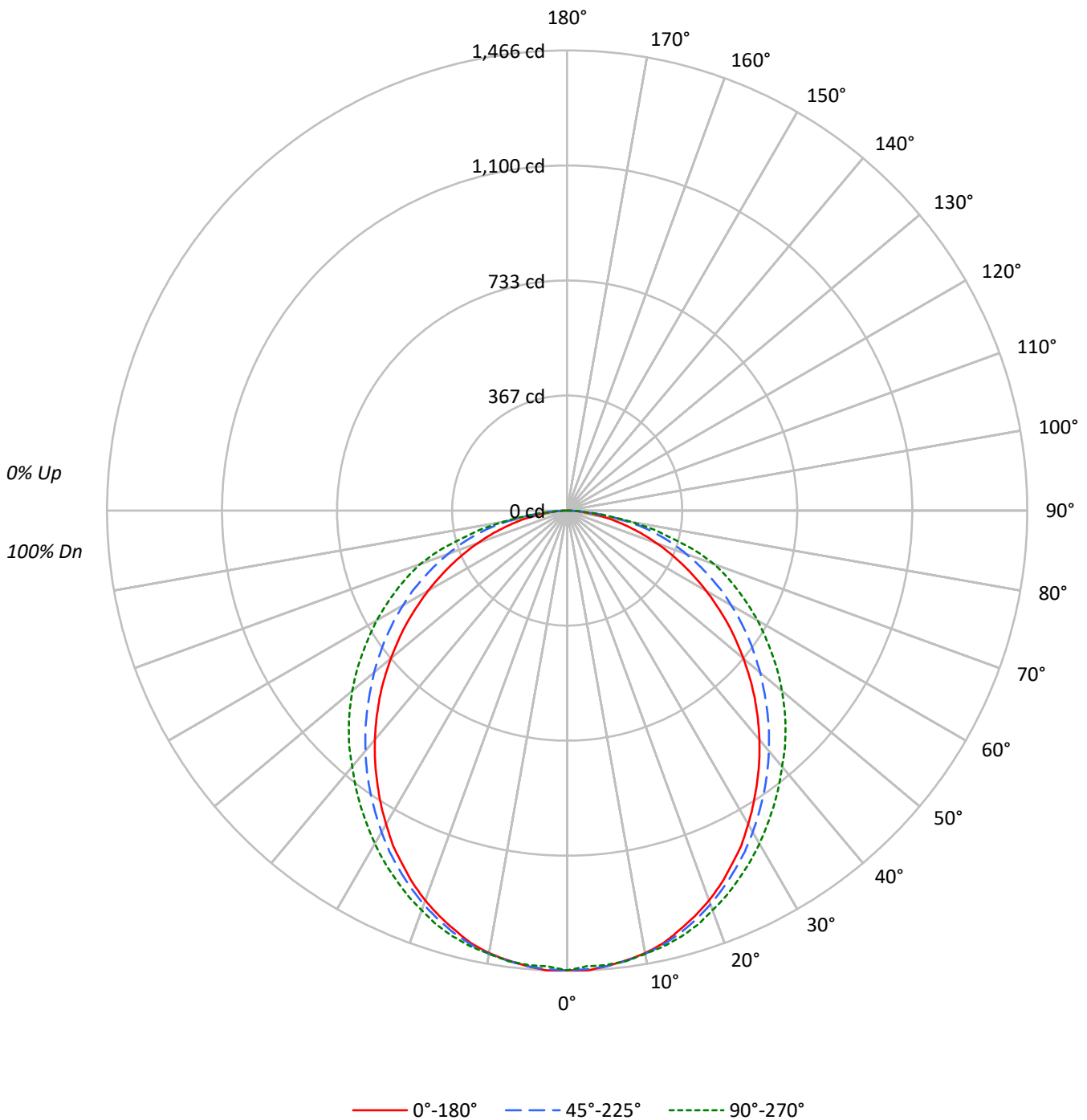
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3941	3941	3941
5°	3935	3935	3925
10°	3912	3917	3917
15°	3854	3881	3913
20°	3785	3824	3879
25°	3689	3752	3844
30°	3585	3675	3807
35°	3467	3594	3771
40°	3348	3511	3741
45°	3216	3429	3745
50°	3069	3360	3740
55°	2924	3304	3739
60°	2752	3250	3770
65°	2580	3207	3821
70°	2383	3172	3917
75°	2146	3149	3631
80°	1884	2930	3169
85°	1550	2205	1967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.4
10°-20°	392.8	9.8
20°-30°	583.5	14.5
30°-40°	686.8	17.1
40°-50°	700.2	17.4
50°-60°	631.5	15.7
60°-70°	497.4	12.4
70°-80°	306.8	7.6
80°-90°	79.7	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°	1114.6	27.7
0°-40°	1801.4	44.8
0°-60°	3133.1	78.0
0°-90°	4017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1457	1459	1457	1455	1453	138
15°	1383	1389	1393	1401	1405	390
25°	1243	1250	1264	1285	1295	573
35°	1055	1067	1094	1129	1148	660
45°	845	859	901	955	984	651
55°	623	644	704	768	797	556
65°	405	434	504	567	600	401
75°	206	241	303	338	349	220
85°	50	64	71	68	64	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1464.4	1464.4	1464.4	1464.4	1464.4
2.5°	1466.4	1466.4	1462.5	1458.6	1452.9
5°	1456.7	1458.6	1456.7	1454.8	1452.9
7.5°	1445.1	1447.1	1447.1	1447.1	1447.1
10°	1431.6	1433.6	1433.6	1433.6	1433.6
12.5°	1412.3	1414.3	1416.2	1418.1	1422.0
15°	1383.4	1389.2	1393.0	1400.8	1404.6
17.5°	1354.5	1360.2	1366.0	1375.7	1383.4
20°	1321.7	1325.5	1335.2	1346.7	1354.5
22.5°	1285.0	1290.8	1300.4	1315.9	1327.4
25°	1242.6	1250.3	1263.8	1285.0	1294.6
27.5°	1202.0	1207.8	1225.2	1248.3	1261.8
30°	1153.8	1161.5	1182.7	1211.7	1225.2
32.5°	1105.6	1115.2	1138.4	1171.2	1186.6
35°	1055.4	1067.0	1094.0	1128.7	1148.0
37.5°	1005.2	1016.8	1047.7	1086.3	1107.5
40°	953.1	964.7	999.4	1041.9	1065.0
42.5°	899.1	912.6	951.2	999.4	1026.5
45°	845.1	858.6	901.0	955.1	984.0
47.5°	789.1	804.6	850.9	910.7	939.6
50°	733.2	750.5	802.6	864.4	893.3
52.5°	677.2	696.5	752.5	816.1	847.0
55°	623.2	644.4	704.2	767.9	796.9
57.5°	565.3	590.4	654.1	715.8	748.6
60°	511.3	538.3	603.9	665.7	700.4
62.5°	457.3	486.2	555.7	617.4	650.2
65°	405.2	434.1	503.6	567.3	600.1
67.5°	353.1	385.9	453.4	517.1	549.9
70°	302.9	337.6	403.2	465.0	497.8
72.5°	254.7	289.4	355.0	412.9	432.2
75°	206.4	241.2	302.9	337.6	349.2
77.5°	162.1	194.9	248.9	270.1	285.6
80°	121.6	150.5	189.1	202.6	204.5
82.5°	83.0	108.0	131.2	133.1	131.2
85°	50.2	63.7	71.4	67.5	63.7
87.5°	23.2	25.1	23.2	15.4	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)