

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: P259399

Luminaire Tested: **22CZ-LD5-39-S-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259399
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-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4258.0 lumens
Efficiency: N/A
Efficacy: 134.7 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

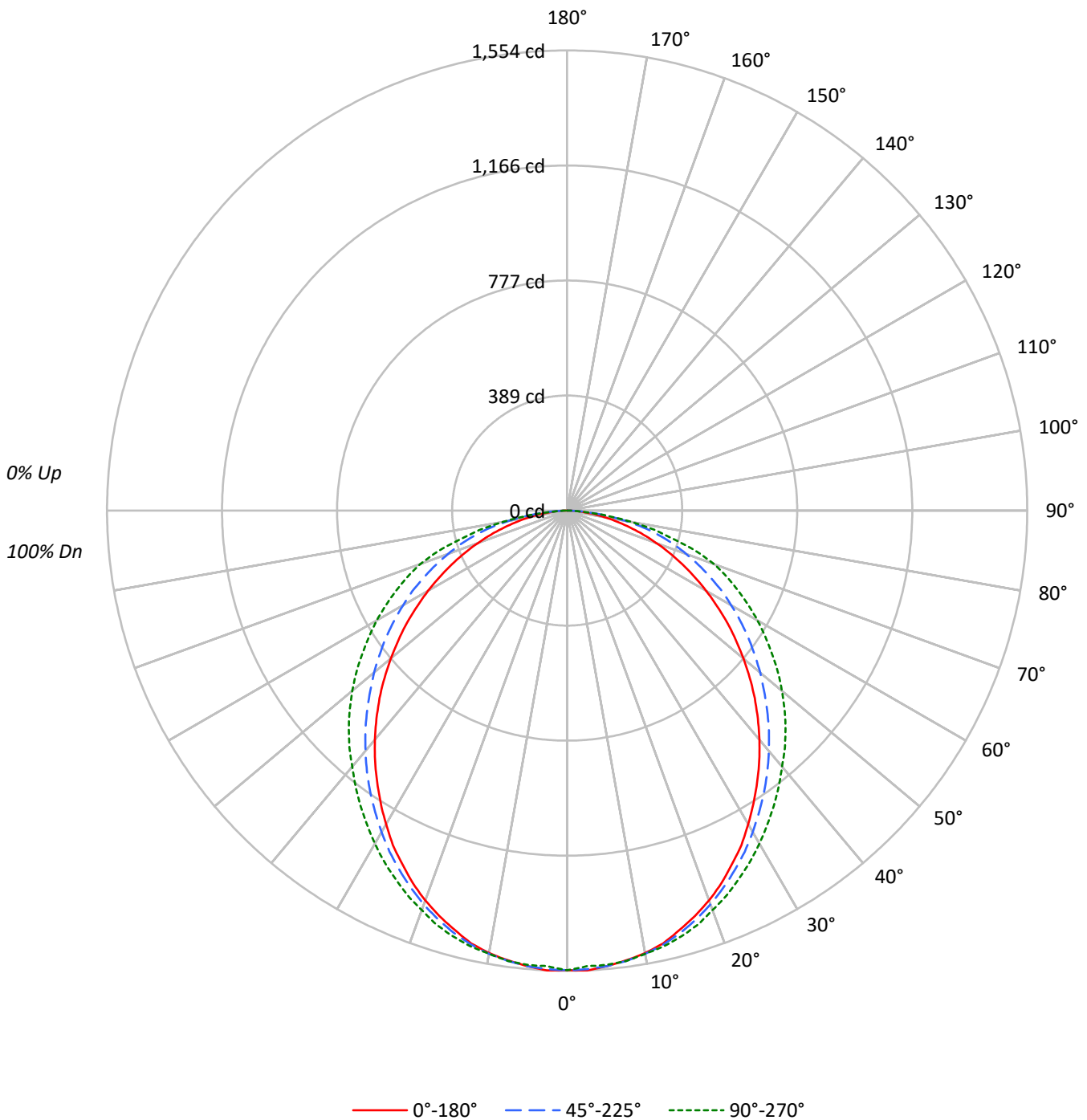
Input Watts (W): 31.62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4177	4177	4177
5°	4171	4171	4160
10°	4147	4152	4152
15°	4085	4114	4148
20°	4012	4053	4111
25°	3911	3977	4075
30°	3800	3896	4035
35°	3675	3809	3998
40°	3549	3721	3966
45°	3409	3635	3969
50°	3254	3562	3964
55°	3099	3502	3963
60°	2917	3445	3996
65°	2735	3399	4050
70°	2526	3363	4152
75°	2275	3339	3849
80°	1996	3106	3360
85°	1643	2337	2084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	3.4
10°-20°	416.4	9.8
20°-30°	618.5	14.5
30°-40°	728.0	17.1
40°-50°	742.2	17.4
50°-60°	669.4	15.7
60°-70°	527.3	12.4
70°-80°	325.2	7.6
80°-90°	84.4	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°	1181.5	27.7
0°-40°	1909.5	44.8
0°-60°	3321.1	78.0
0°-90°	4258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1544	1546	1544	1542	1540	147
15°	1466	1472	1477	1485	1489	413
25°	1317	1325	1340	1362	1372	607
35°	1119	1131	1160	1196	1217	700
45°	896	910	955	1012	1043	691
55°	661	683	746	814	845	589
65°	430	460	534	601	636	425
75°	219	256	321	358	370	233
85°	53	68	76	72	68	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1554.3	1554.3	1550.2	1546.2	1540.0
5°	1544.1	1546.2	1544.1	1542.1	1540.0
7.5°	1531.8	1533.9	1533.9	1533.9	1533.9
10°	1517.5	1519.6	1519.6	1519.6	1519.6
12.5°	1497.1	1499.1	1501.2	1503.2	1507.3
15°	1466.4	1472.5	1476.6	1484.8	1488.9
17.5°	1435.7	1441.9	1448.0	1458.2	1466.4
20°	1400.9	1405.0	1415.3	1427.5	1435.7
22.5°	1362.1	1368.2	1378.5	1394.8	1407.1
25°	1317.1	1325.3	1339.6	1362.1	1372.3
27.5°	1274.1	1280.3	1298.7	1323.2	1337.5
30°	1223.0	1231.2	1253.7	1284.4	1298.7
32.5°	1171.9	1182.1	1206.7	1241.4	1257.8
35°	1118.7	1131.0	1159.6	1196.4	1216.9
37.5°	1065.5	1077.8	1110.5	1151.4	1173.9
40°	1010.3	1022.6	1059.4	1104.4	1128.9
42.5°	953.1	967.4	1008.3	1059.4	1088.0
45°	895.8	910.1	955.1	1012.4	1043.0
47.5°	836.5	852.8	901.9	965.3	996.0
50°	777.2	795.6	850.8	916.2	946.9
52.5°	717.9	738.3	797.6	865.1	897.8
55°	660.6	683.1	746.5	814.0	844.7
57.5°	599.2	625.8	693.3	758.8	793.5
60°	542.0	570.6	640.1	705.6	742.4
62.5°	484.7	515.4	589.0	654.5	689.2
65°	429.5	460.2	533.8	601.3	636.1
67.5°	374.3	409.0	480.6	548.1	582.9
70°	321.1	357.9	427.4	492.9	527.7
72.5°	270.0	306.8	376.3	437.7	458.1
75°	218.8	255.6	321.1	357.9	370.2
77.5°	171.8	206.6	263.8	286.3	302.7
80°	128.8	159.5	200.4	214.7	216.8
82.5°	87.9	114.5	139.1	141.1	139.1
85°	53.2	67.5	75.7	71.6	67.5
87.5°	24.5	26.6	24.5	16.4	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)