

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: P260226

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-SQP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1686.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

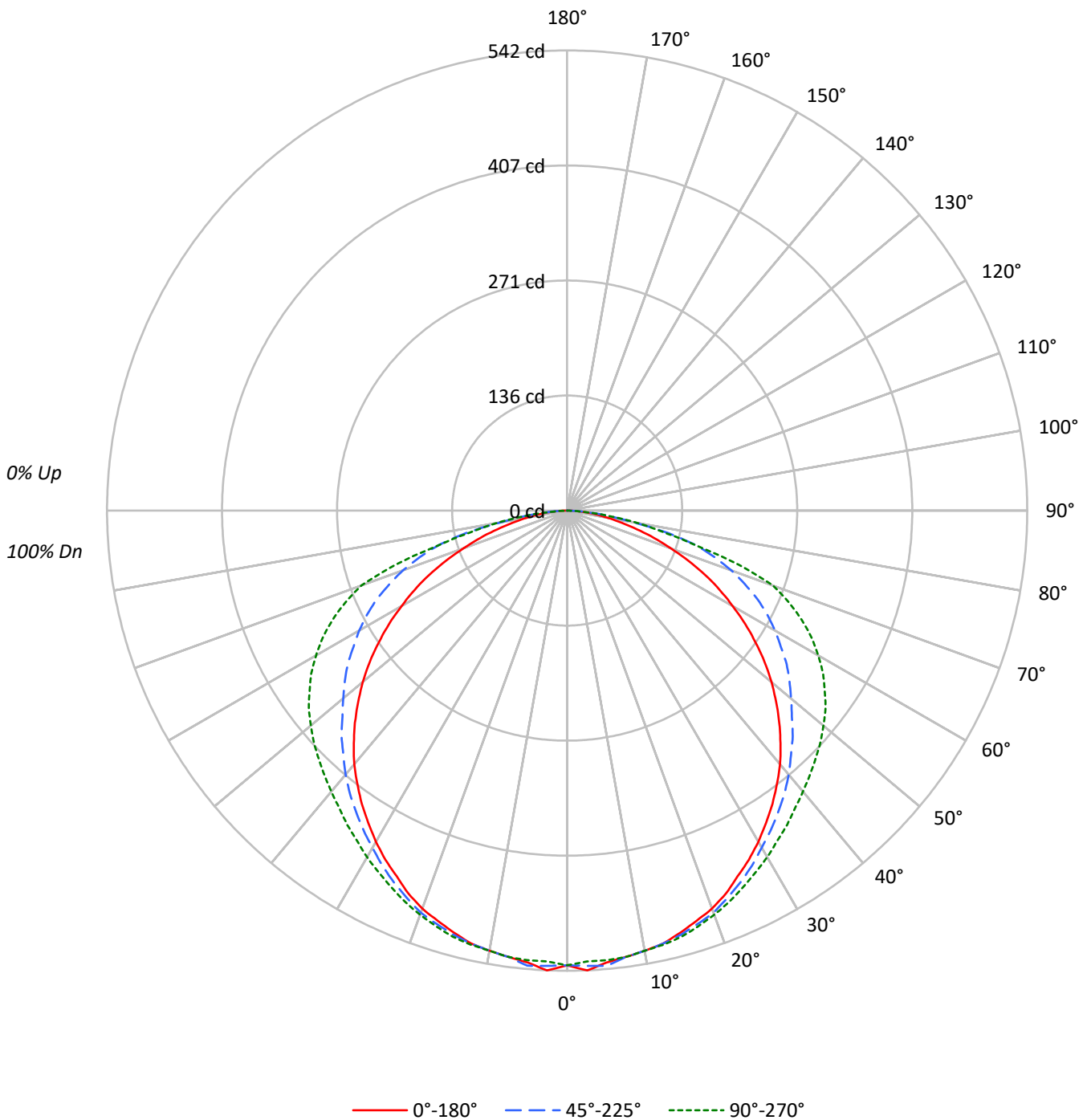
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1441	1441	1441
5°	1443	1454	1436
10°	1438	1438	1438
15°	1434	1441	1448
20°	1429	1444	1451
25°	1411	1434	1454
30°	1400	1424	1465
35°	1385	1424	1484
40°	1371	1426	1518
45°	1345	1430	1575
50°	1315	1442	1650
55°	1271	1481	1738
60°	1212	1522	1839
65°	1142	1576	1943
70°	1020	1618	2029
75°	885	1620	1606
80°	750	1198	1299
85°	645	809	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	3.0
10°-20°	146.0	8.7
20°-30°	222.5	13.2
30°-40°	272.3	16.1
40°-50°	293.0	17.4
50°-60°	283.8	16.8
60°-70°	240.4	14.3
70°-80°	145.3	8.6
80°-90°	31.9	1.9
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°	419.4	24.9
0°-40°	691.7	41.0
0°-60°	1268.4	75.2
0°-90°	1686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	534	534	538	536	532	51
15°	515	516	517	518	520	145
25°	475	478	483	487	490	219
35°	422	424	433	445	452	264
45°	354	360	376	399	414	272
55°	271	283	316	352	370	242
65°	179	199	248	287	305	177
75°	85	115	156	158	154	91
85°	21	25	26	25	24	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	535.5	535.5	535.5	535.5	535.5
2.5°	542.1	540.8	536.8	534.2	531.6
5°	534.2	534.2	538.1	535.5	531.6
7.5°	530.3	530.3	530.3	536.8	530.3
10°	526.4	527.7	526.4	531.6	526.4
12.5°	522.4	522.4	522.4	523.7	523.7
15°	514.6	515.9	517.2	518.5	519.8
17.5°	506.7	508.0	510.6	512.0	513.3
20°	498.9	500.2	504.1	504.1	506.7
22.5°	488.4	488.4	493.6	494.9	498.9
25°	475.3	477.9	483.1	487.1	489.7
27.5°	463.5	466.1	471.4	476.6	480.5
30°	450.4	453.0	458.3	466.1	471.4
32.5°	436.0	438.6	446.5	455.6	460.9
35°	421.6	424.2	433.4	445.2	451.7
37.5°	405.9	409.8	420.3	433.4	441.2
40°	390.2	394.1	405.9	420.3	432.1
42.5°	371.9	377.1	390.2	409.8	422.9
45°	353.5	360.1	375.8	399.3	413.8
47.5°	333.9	340.4	358.8	388.9	404.6
50°	314.2	322.1	344.4	377.1	394.1
52.5°	293.3	301.1	330.0	365.3	383.6
55°	271.0	282.8	315.6	352.2	370.5
57.5°	248.8	261.9	298.5	337.8	357.4
60°	225.2	240.9	282.8	322.1	341.7
62.5°	202.9	220.0	265.8	305.1	324.7
65°	179.4	199.0	247.5	286.7	305.1
67.5°	154.5	179.4	226.5	264.5	282.8
70°	129.6	158.4	205.6	240.9	257.9
72.5°	107.4	137.5	182.0	212.1	212.1
75°	85.1	115.2	155.8	158.4	154.5
77.5°	65.5	94.3	121.8	111.3	113.9
80°	48.4	72.0	77.3	81.2	83.8
82.5°	32.7	48.4	49.8	52.4	52.4
85°	20.9	24.9	26.2	24.9	23.6
87.5°	9.2	10.5	7.9	5.2	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)