

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: P230805

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230805
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-L935-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH SQP LENS
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1724.0 lumens
Efficiency: N/A
Efficacy: 73.4 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

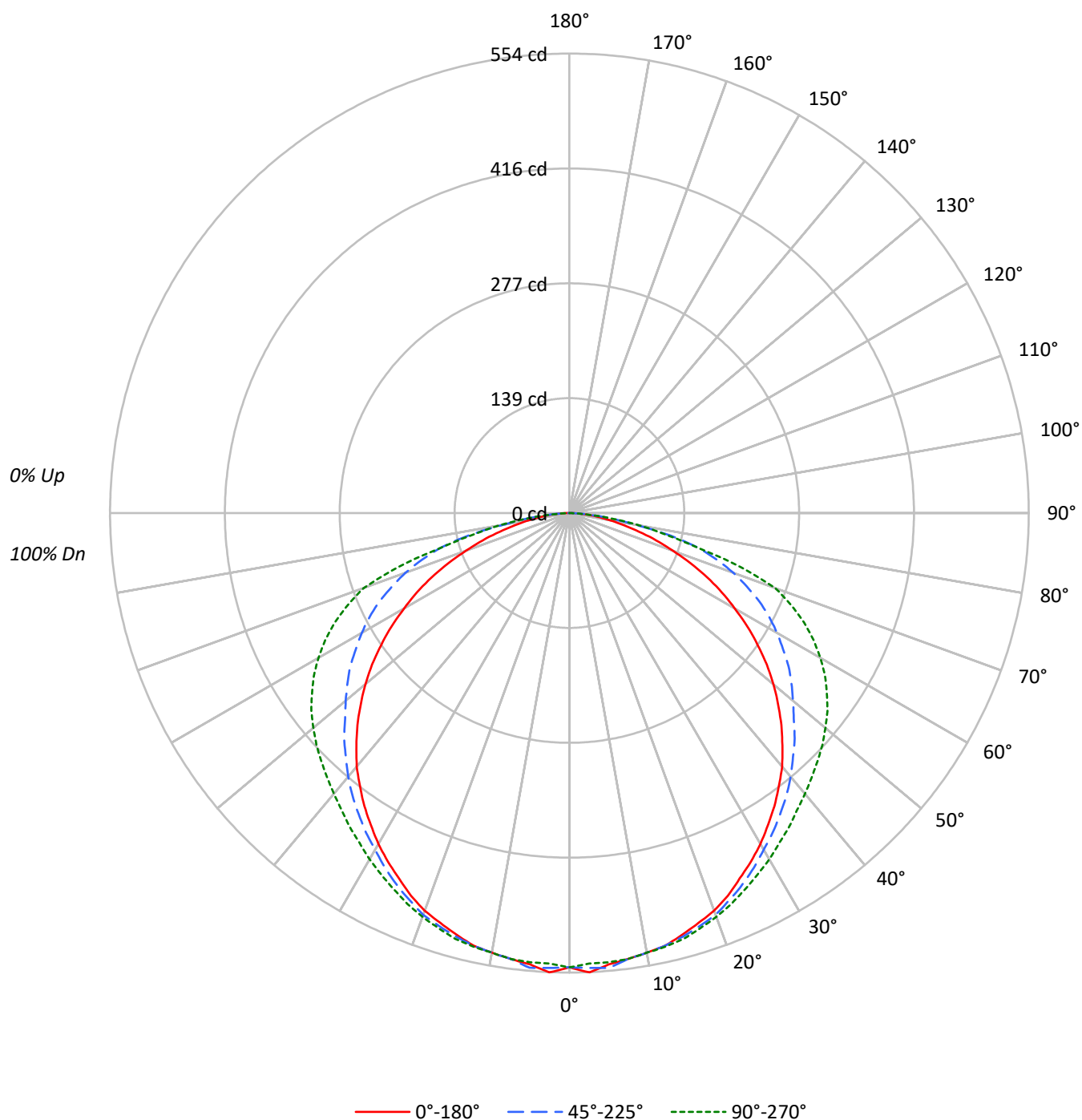
Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	1474	1474	1474
5°	1475	1487	1468
10°	1471	1471	1471
15°	1466	1473	1481
20°	1461	1476	1484
25°	1443	1467	1487
30°	1431	1456	1498
35°	1416	1456	1517
40°	1402	1458	1552
45°	1376	1462	1610
50°	1345	1474	1687
55°	1300	1514	1778
60°	1239	1556	1880
65°	1168	1611	1987
70°	1042	1654	2076
75°	905	1656	1643
80°	767	1224	1328
85°	661	827	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	3.0
10°-20°	149.3	8.7
20°-30°	227.5	13.2
30°-40°	278.4	16.1
40°-50°	299.6	17.4
50°-60°	290.2	16.8
60°-70°	245.8	14.3
70°-80°	148.6	8.6
80°-90°	32.6	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°	428.8	24.9
0°-40°	707.2	41.0
0°-60°	1297.0	75.2
0°-90°	1724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	546	546	550	548	544	52
15°	526	528	529	530	532	149
25°	486	489	494	498	501	224
35°	431	434	443	455	462	270
45°	362	368	384	408	423	279
55°	277	289	323	360	379	248
65°	183	204	253	293	312	181
75°	87	118	159	162	158	93
85°	21	25	27	25	24	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	547.6	547.6	547.6	547.6	547.6
2.5°	554.3	552.9	548.9	546.2	543.6
5°	546.2	546.2	550.3	547.6	543.6
7.5°	542.2	542.2	542.2	548.9	542.2
10°	538.2	539.6	538.2	543.6	538.2
12.5°	534.2	534.2	534.2	535.5	535.5
15°	526.2	527.5	528.8	530.2	531.5
17.5°	518.1	519.5	522.2	523.5	524.8
20°	510.1	511.4	515.5	515.5	518.1
22.5°	499.4	499.4	504.7	506.1	510.1
25°	486.0	488.7	494.0	498.1	500.7
27.5°	474.0	476.6	482.0	487.3	491.4
30°	460.6	463.2	468.6	476.6	482.0
32.5°	445.8	448.5	456.5	465.9	471.3
35°	431.1	433.8	443.2	455.2	461.9
37.5°	415.0	419.1	429.8	443.2	451.2
40°	399.0	403.0	415.0	429.8	441.8
42.5°	380.2	385.6	399.0	419.1	432.4
45°	361.5	368.2	384.2	408.3	423.1
47.5°	341.4	348.1	366.8	397.6	413.7
50°	321.3	329.4	352.1	385.6	403.0
52.5°	299.9	307.9	337.4	373.5	392.3
55°	277.1	289.2	322.7	360.2	378.9
57.5°	254.4	267.8	305.3	345.4	365.5
60°	230.3	246.3	289.2	329.4	349.4
62.5°	207.5	224.9	271.8	312.0	332.0
65°	183.4	203.5	253.0	293.2	312.0
67.5°	158.0	183.4	231.6	270.4	289.2
70°	132.5	162.0	210.2	246.3	263.8
72.5°	109.8	140.6	186.1	216.9	216.9
75°	87.0	117.8	159.3	162.0	158.0
77.5°	66.9	96.4	124.5	113.8	116.5
80°	49.5	73.6	79.0	83.0	85.7
82.5°	33.5	49.5	50.9	53.6	53.6
85°	21.4	25.4	26.8	25.4	24.1
87.5°	9.4	10.7	8.0	5.4	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)