

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: P260355

Luminaire Tested: **22CZ-LD5-29-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260355
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-L92765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1682.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

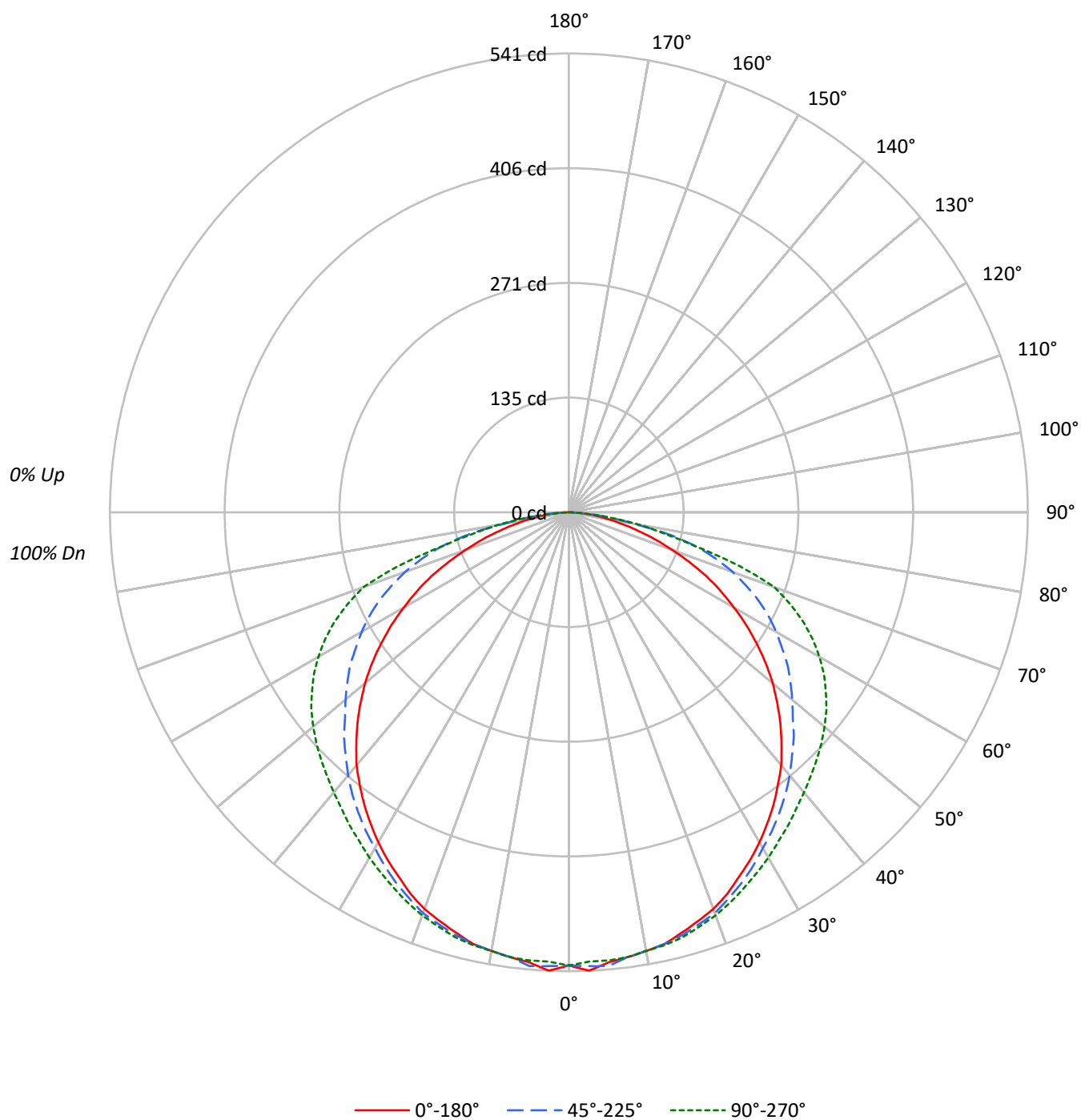
Input Watts (W): 21.483
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1438	1438	1438
5°	1440	1450	1432
10°	1435	1435	1435
15°	1430	1438	1445
20°	1425	1440	1448
25°	1408	1431	1450
30°	1396	1421	1461
35°	1382	1420	1480
40°	1368	1422	1514
45°	1342	1427	1571
50°	1312	1438	1646
55°	1269	1477	1734
60°	1209	1518	1835
65°	1140	1572	1938
70°	1017	1614	2024
75°	883	1616	1602
80°	748	1195	1296
85°	645	806	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	3.0
10°-20°	145.7	8.7
20°-30°	222.0	13.2
30°-40°	271.6	16.1
40°-50°	292.3	17.4
50°-60°	283.1	16.8
60°-70°	239.8	14.3
70°-80°	145.0	8.6
80°-90°	31.8	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°	418.4	24.9
0°-40°	690.0	41.0
0°-60°	1265.4	75.2
0°-90°	1682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	533	533	537	534	530	51
15°	513	515	516	517	519	145
25°	474	477	482	486	488	219
35°	421	423	432	444	451	263
45°	353	359	375	398	413	272
55°	270	282	315	351	370	242
65°	179	198	247	286	304	176
75°	85	115	155	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°	534.2	534.2	534.2	534.2	534.2
2.5°	540.8	539.5	535.6	532.9	530.3
5°	532.9	532.9	536.9	534.2	530.3
7.5°	529.0	529.0	529.0	535.6	529.0
10°	525.1	526.4	525.1	530.3	525.1
12.5°	521.2	521.2	521.2	522.5	522.5
15°	513.3	514.7	516.0	517.3	518.6
17.5°	505.5	506.8	509.4	510.7	512.0
20°	497.7	499.0	502.9	502.9	505.5
22.5°	487.2	487.2	492.4	493.8	497.7
25°	474.2	476.8	482.0	485.9	488.5
27.5°	462.4	465.0	470.2	475.5	479.4
30°	449.3	452.0	457.2	465.0	470.2
32.5°	435.0	437.6	445.4	454.6	459.8
35°	420.6	423.2	432.4	444.1	450.6
37.5°	404.9	408.9	419.3	432.4	440.2
40°	389.3	393.2	404.9	419.3	431.1
42.5°	371.0	376.2	389.3	408.9	421.9
45°	352.7	359.2	374.9	398.4	412.8
47.5°	333.1	339.6	357.9	388.0	403.6
50°	313.5	321.3	343.5	376.2	393.2
52.5°	292.6	300.4	329.2	364.4	382.7
55°	270.4	282.1	314.8	351.4	369.7
57.5°	248.2	261.2	297.8	337.0	356.6
60°	224.7	240.3	282.1	321.3	340.9
62.5°	202.5	219.4	265.2	304.4	323.9
65°	179.0	198.5	246.9	286.1	304.4
67.5°	154.1	179.0	226.0	263.9	282.1
70°	129.3	158.1	205.1	240.3	257.3
72.5°	107.1	137.2	181.6	211.6	211.6
75°	84.9	114.9	155.4	158.1	154.1
77.5°	65.3	94.0	121.5	111.0	113.6
80°	48.3	71.8	77.1	81.0	83.6
82.5°	32.7	48.3	49.6	52.2	52.2
85°	20.9	24.8	26.1	24.8	23.5
87.5°	9.1	10.4	7.8	5.2	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)