

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: P260462

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-29-RDP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1927.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

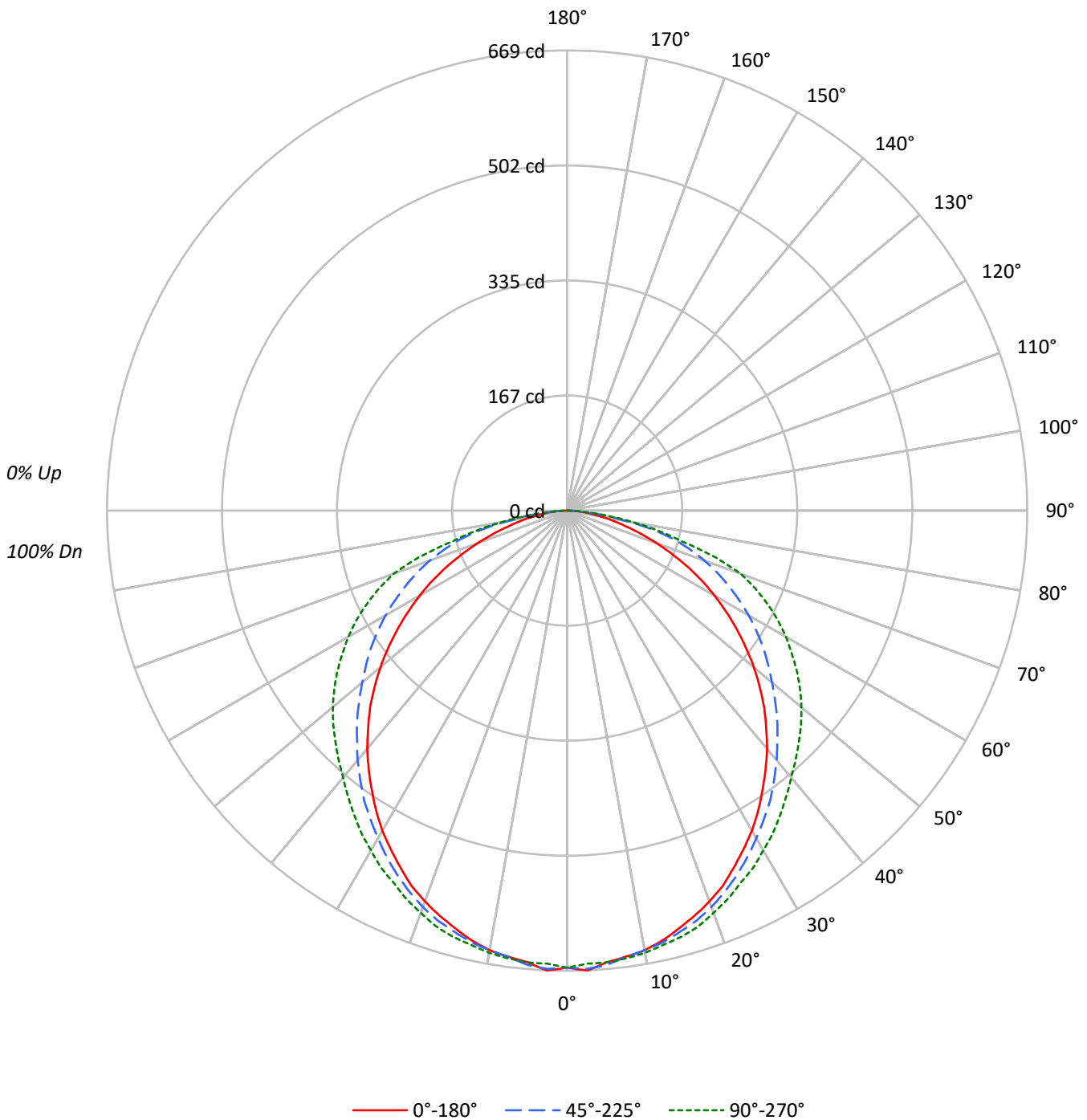
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	77	73		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1788	1788	1788
5°	1781	1791	1781
10°	1774	1774	1784
15°	1752	1766	1787
20°	1732	1757	1782
25°	1701	1735	1773
30°	1670	1709	1772
35°	1627	1690	1774
40°	1588	1664	1780
45°	1542	1644	1813
50°	1484	1627	1861
55°	1413	1633	1913
60°	1333	1641	1976
65°	1230	1650	2046
70°	1090	1669	2109
75°	924	1665	1797
80°	767	1339	1495
85°	667	902	861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	3.3
10°-20°	179.0	9.3
20°-30°	269.4	14.0
30°-40°	322.8	16.8
40°-50°	336.6	17.5
50°-60°	313.4	16.3
60°-70°	254.5	13.2
70°-80°	153.4	8.0
80°-90°	35.2	1.8
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°	511.2	26.5
0°-40°	834.0	43.3
0°-60°	1484.0	77.0
0°-90°	1927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	659	659	663	664	659	63
15°	629	631	634	638	642	177
25°	573	577	584	592	597	264
35°	495	502	514	530	540	310
45°	405	413	432	460	476	312
55°	301	314	348	386	408	269
65°	193	213	259	300	321	191
75°	89	118	160	170	173	96
85°	22	27	29	28	28	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.4	664.4	664.4	664.4	664.4
2.5°	669.4	668.2	666.9	663.1	659.3
5°	659.3	659.3	663.1	664.4	659.3
7.5°	654.2	654.2	654.2	659.3	656.7
10°	649.1	649.1	649.1	652.9	652.9
12.5°	640.2	641.5	642.8	644.0	646.6
15°	628.8	631.3	633.9	637.7	641.5
17.5°	617.4	619.9	625.0	628.8	633.9
20°	604.7	607.2	613.5	617.4	622.4
22.5°	590.7	592.0	599.6	604.7	611.0
25°	572.9	576.7	584.3	592.0	597.0
27.5°	555.1	558.9	567.8	578.0	585.6
30°	537.3	541.1	550.0	562.7	570.4
32.5°	517.0	522.1	532.2	547.5	556.4
35°	495.4	501.8	514.5	529.7	539.9
37.5°	473.8	480.2	494.1	513.2	523.4
40°	452.2	458.6	473.8	494.1	506.8
42.5°	428.1	435.7	452.2	476.4	491.6
45°	405.2	412.8	431.9	459.8	476.4
47.5°	379.8	388.7	410.3	442.1	461.1
50°	354.4	364.6	388.7	424.3	444.6
52.5°	327.7	339.2	368.4	405.2	426.8
55°	301.1	313.8	348.1	386.2	407.8
57.5°	274.4	288.4	326.5	365.8	387.4
60°	247.7	262.9	304.9	345.5	367.1
62.5°	221.0	237.5	282.0	322.7	345.5
65°	193.1	213.4	259.1	299.8	321.4
67.5°	165.1	189.3	236.3	275.7	296.0
70°	138.5	165.1	212.1	249.0	268.0
72.5°	113.1	141.0	186.7	218.5	226.1
75°	88.9	118.1	160.1	170.2	172.8
77.5°	68.6	95.3	127.0	129.6	135.9
80°	49.5	72.4	86.4	94.0	96.5
82.5°	34.3	49.5	57.2	58.4	59.7
85°	21.6	26.7	29.2	27.9	27.9
87.5°	11.4	10.2	8.9	6.4	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)