

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: P260523

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260523
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-L92765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1980.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

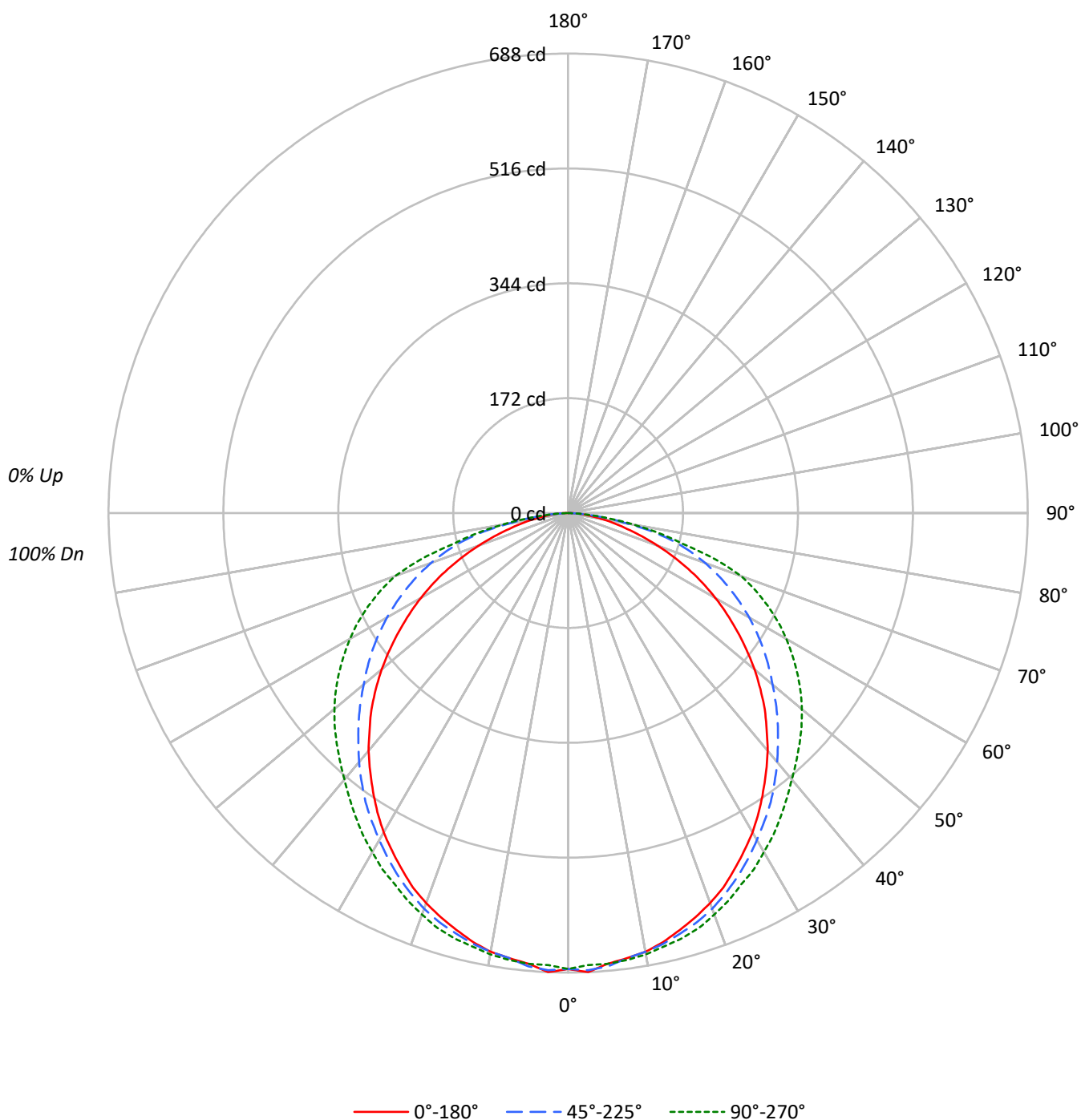
Input Watts (W): 21.483
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	1837	1837	1837
5°	1830	1840	1830
10°	1823	1823	1833
15°	1800	1814	1836
20°	1779	1805	1832
25°	1748	1783	1822
30°	1716	1756	1821
35°	1672	1736	1822
40°	1632	1710	1829
45°	1585	1689	1863
50°	1525	1672	1912
55°	1451	1678	1966
60°	1370	1686	2030
65°	1263	1696	2103
70°	1120	1715	2167
75°	950	1710	1845
80°	789	1376	1537
85°	685	926	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	3.3
10°-20°	184.0	9.3
20°-30°	276.8	14.0
30°-40°	331.7	16.8
40°-50°	345.9	17.5
50°-60°	322.0	16.3
60°-70°	261.5	13.2
70°-80°	157.6	8.0
80°-90°	36.1	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°	525.2	26.5
0°-40°	856.9	43.3
0°-60°	1524.8	77.0
0°-90°	1980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	677	677	681	683	677	64
15°	646	649	651	655	659	182
25°	589	593	600	608	614	271
35°	509	516	529	544	555	319
45°	416	424	444	472	490	321
55°	309	322	358	397	419	277
65°	198	219	266	308	330	196
75°	91	121	164	175	178	99
85°	22	27	30	29	29	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	682.6	682.6	682.6	682.6	682.6
2.5°	687.9	686.5	685.2	681.3	677.4
5°	677.4	677.4	681.3	682.6	677.4
7.5°	672.2	672.2	672.2	677.4	674.8
10°	667.0	667.0	667.0	670.9	670.9
12.5°	657.8	659.1	660.4	661.7	664.4
15°	646.1	648.7	651.3	655.2	659.1
17.5°	634.3	636.9	642.2	646.1	651.3
20°	621.3	623.9	630.4	634.3	639.6
22.5°	606.9	608.2	616.1	621.3	627.8
25°	588.7	592.6	600.4	608.2	613.5
27.5°	570.4	574.3	583.4	593.9	601.7
30°	552.1	556.0	565.2	578.2	586.0
32.5°	531.2	536.4	546.9	562.5	571.7
35°	509.0	515.6	528.6	544.3	554.7
37.5°	486.8	493.4	507.7	527.3	537.8
40°	464.7	471.2	486.8	507.7	520.8
42.5°	439.9	447.7	464.7	489.5	505.1
45°	416.4	424.2	443.8	472.5	489.5
47.5°	390.3	399.4	421.6	454.2	473.8
50°	364.2	374.6	399.4	435.9	456.8
52.5°	336.7	348.5	378.5	416.4	438.6
55°	309.3	322.4	357.6	396.8	419.0
57.5°	281.9	296.3	335.4	375.9	398.1
60°	254.5	270.2	313.3	355.0	377.2
62.5°	227.1	244.1	289.8	331.5	355.0
65°	198.4	219.3	266.3	308.0	330.2
67.5°	169.7	194.5	242.8	283.2	304.1
70°	142.3	169.7	218.0	255.8	275.4
72.5°	116.2	144.9	191.9	224.5	232.3
75°	91.4	121.4	164.5	174.9	177.5
77.5°	70.5	97.9	130.5	133.1	139.7
80°	50.9	74.4	88.8	96.6	99.2
82.5°	35.2	50.9	58.7	60.0	61.3
85°	22.2	27.4	30.0	28.7	28.7
87.5°	11.7	10.4	9.1	6.5	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)