

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: P260397

Luminaire Tested: **22CZ-LD5-29-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260397
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-L83050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2226.0 lumens
Efficiency: N/A
Efficacy: 101.9 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

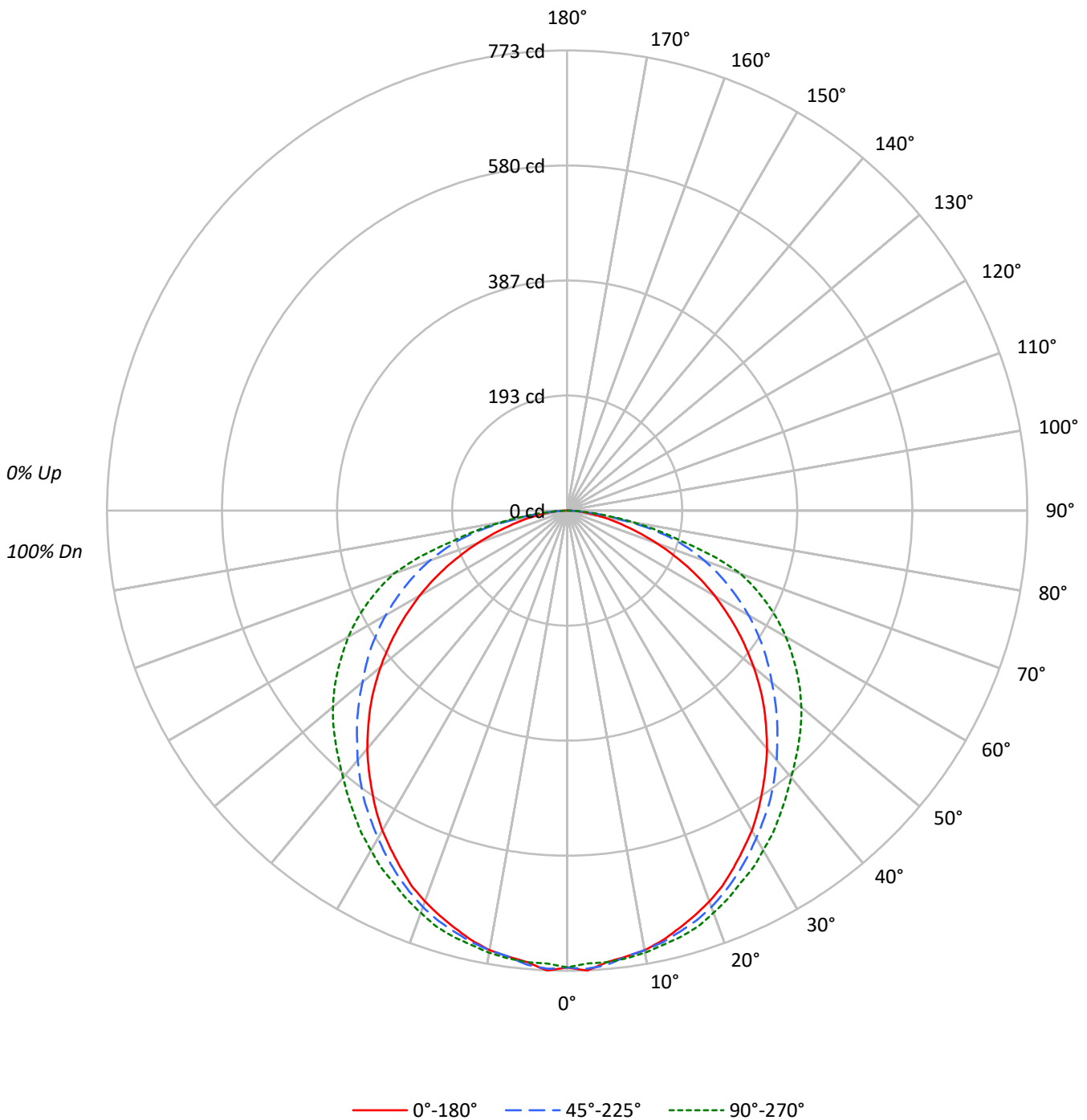
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2065	2065	2065
5°	2057	2069	2057
10°	2049	2049	2061
15°	2024	2040	2064
20°	2000	2029	2059
25°	1965	2004	2048
30°	1929	1974	2047
35°	1880	1952	2049
40°	1835	1923	2057
45°	1781	1899	2094
50°	1714	1880	2150
55°	1632	1886	2210
60°	1540	1896	2282
65°	1420	1906	2364
70°	1258	1928	2436
75°	1068	1922	2075
80°	886	1547	1728
85°	769	1041	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	3.3
10°-20°	206.8	9.3
20°-30°	311.2	14.0
30°-40°	372.9	16.8
40°-50°	388.9	17.5
50°-60°	362.0	16.3
60°-70°	294.0	13.2
70°-80°	177.2	8.0
80°-90°	40.6	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°	590.5	26.5
0°-40°	963.4	43.3
0°-60°	1714.3	77.0
0°-90°	2226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	762	762	766	767	762	72
15°	726	729	732	737	741	205
25°	662	666	675	684	690	305
35°	572	580	594	612	624	358
45°	468	477	499	531	550	360
55°	348	362	402	446	471	311
65°	223	246	299	346	371	221
75°	103	136	185	197	200	111
85°	25	31	34	32	32	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.4	767.4	767.4	767.4	767.4
2.5°	773.3	771.8	770.4	766.0	761.6
5°	761.6	761.6	766.0	767.4	761.6
7.5°	755.7	755.7	755.7	761.6	758.6
10°	749.8	749.8	749.8	754.2	754.2
12.5°	739.6	741.0	742.5	744.0	746.9
15°	726.4	729.3	732.2	736.6	741.0
17.5°	713.1	716.1	722.0	726.4	732.2
20°	698.5	701.4	708.7	713.1	719.0
22.5°	682.3	683.8	692.6	698.5	705.8
25°	661.8	666.2	675.0	683.8	689.7
27.5°	641.2	645.6	655.9	667.7	676.5
30°	620.7	625.1	635.4	650.1	658.9
32.5°	597.2	603.1	614.8	632.4	642.7
35°	572.3	579.6	594.3	611.9	623.6
37.5°	547.3	554.7	570.8	592.8	604.6
40°	522.4	529.7	547.3	570.8	585.5
42.5°	494.5	503.3	522.4	550.3	567.9
45°	468.1	476.9	498.9	531.2	550.3
47.5°	438.7	449.0	474.0	510.6	532.7
50°	409.4	421.1	449.0	490.1	513.6
52.5°	378.6	391.8	425.5	468.1	493.0
55°	347.8	362.4	402.1	446.1	471.0
57.5°	317.0	333.1	377.1	422.6	447.6
60°	286.1	303.7	352.2	399.1	424.1
62.5°	255.3	274.4	325.8	372.7	399.1
65°	223.0	246.5	299.3	346.3	371.2
67.5°	190.8	218.6	272.9	318.4	341.9
70°	159.9	190.8	245.1	287.6	309.6
72.5°	130.6	162.9	215.7	252.4	261.2
75°	102.7	136.5	184.9	196.6	199.6
77.5°	79.2	110.1	146.7	149.7	157.0
80°	57.2	83.6	99.8	108.6	111.5
82.5°	39.6	57.2	66.0	67.5	69.0
85°	24.9	30.8	33.7	32.3	32.3
87.5°	13.2	11.7	10.3	7.3	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)