

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: P259437

Luminaire Tested: **22CZ-LD5-20-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-20-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2080.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

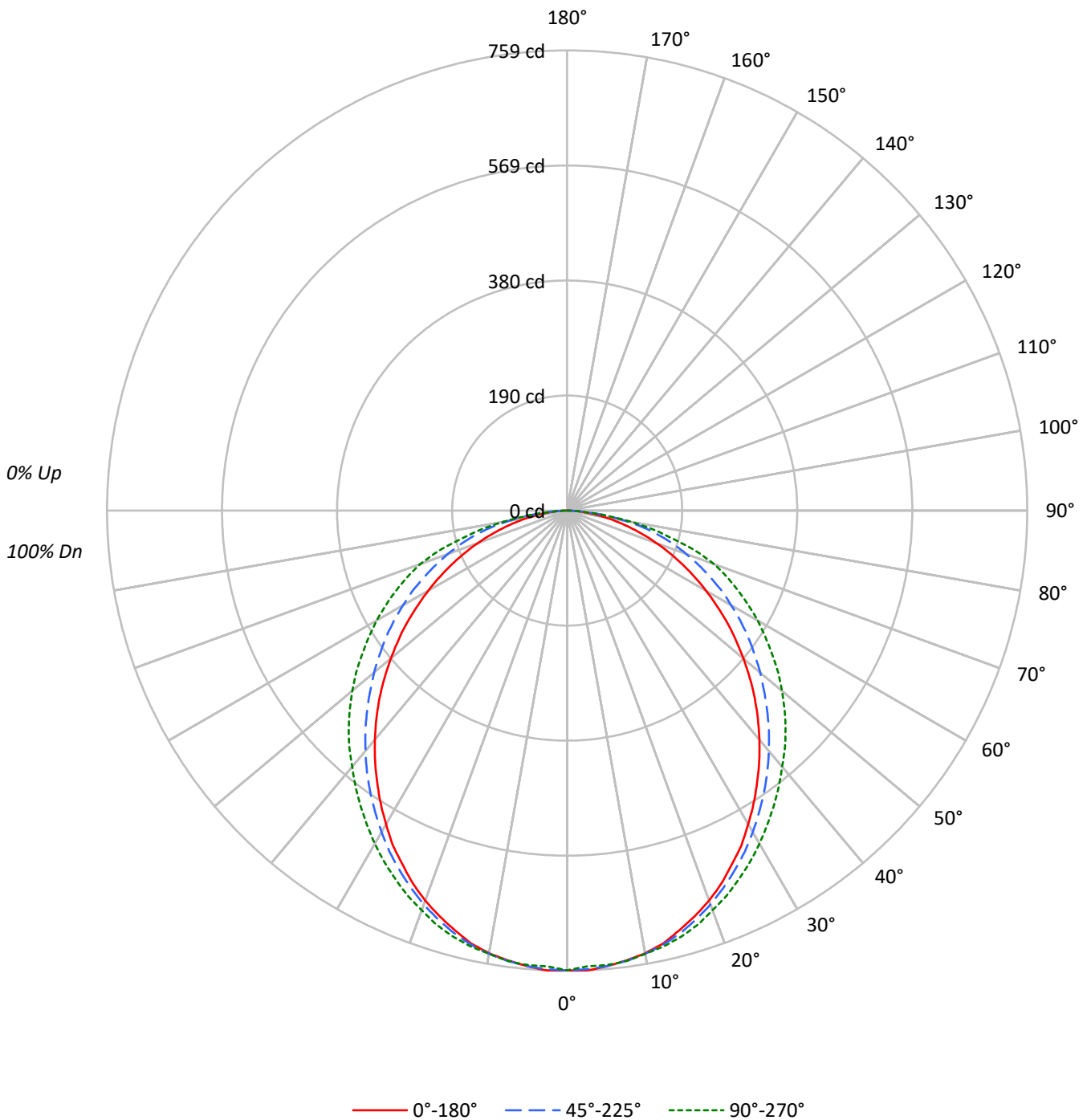
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2041	2041	2041
5°	2038	2038	2032
10°	2026	2028	2028
15°	1996	2009	2026
20°	1960	1980	2008
25°	1910	1943	1991
30°	1856	1903	1971
35°	1795	1861	1953
40°	1734	1818	1937
45°	1665	1776	1939
50°	1589	1740	1937
55°	1514	1711	1936
60°	1425	1683	1952
65°	1336	1661	1978
70°	1234	1643	2028
75°	1111	1631	1880
80°	975	1517	1641
85°	803	1142	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.4
10°-20°	203.4	9.8
20°-30°	302.1	14.5
30°-40°	355.6	17.1
40°-50°	362.6	17.4
50°-60°	327.0	15.7
60°-70°	257.6	12.4
70°-80°	158.9	7.6
80°-90°	41.2	2.0
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°	577.1	27.7
0°-40°	932.8	44.8
0°-60°	1622.3	78.0
0°-90°	2080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	754	755	754	753	752	72
15°	716	719	721	725	727	202
25°	643	647	654	665	670	296
35°	546	552	566	584	594	342
45°	438	445	467	494	510	337
55°	323	334	365	398	413	288
65°	210	225	261	294	311	208
75°	107	125	157	175	181	114
85°	26	33	37	35	33	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	758.3	758.3	758.3	758.3	758.3
2.5°	759.3	759.3	757.3	755.3	752.3
5°	754.3	755.3	754.3	753.3	752.3
7.5°	748.3	749.3	749.3	749.3	749.3
10°	741.3	742.3	742.3	742.3	742.3
12.5°	731.3	732.3	733.3	734.3	736.3
15°	716.3	719.3	721.3	725.3	727.3
17.5°	701.3	704.3	707.3	712.3	716.3
20°	684.4	686.4	691.3	697.3	701.3
22.5°	665.4	668.4	673.4	681.4	687.4
25°	643.4	647.4	654.4	665.4	670.4
27.5°	622.4	625.4	634.4	646.4	653.4
30°	597.4	601.4	612.4	627.4	634.4
32.5°	572.5	577.5	589.4	606.4	614.4
35°	546.5	552.5	566.5	584.4	594.4
37.5°	520.5	526.5	542.5	562.5	573.5
40°	493.5	499.5	517.5	539.5	551.5
42.5°	465.6	472.6	492.5	517.5	531.5
45°	437.6	444.6	466.6	494.5	509.5
47.5°	408.6	416.6	440.6	471.6	486.5
50°	379.6	388.6	415.6	447.6	462.6
52.5°	350.7	360.7	389.6	422.6	438.6
55°	322.7	333.7	364.7	397.6	412.6
57.5°	292.7	305.7	338.7	370.6	387.6
60°	264.7	278.7	312.7	344.7	362.7
62.5°	236.8	251.8	287.7	319.7	336.7
65°	209.8	224.8	260.8	293.7	310.7
67.5°	182.8	199.8	234.8	267.7	284.7
70°	156.9	174.8	208.8	240.8	257.8
72.5°	131.9	149.9	183.8	213.8	223.8
75°	106.9	124.9	156.9	174.8	180.8
77.5°	83.9	100.9	128.9	139.9	147.9
80°	62.9	77.9	97.9	104.9	105.9
82.5°	43.0	55.9	67.9	68.9	67.9
85°	26.0	33.0	37.0	35.0	33.0
87.5°	12.0	13.0	12.0	8.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)