

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: P259509

Luminaire Tested: **22CZ-LD5-29-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259509
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-LD5-29-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2368.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

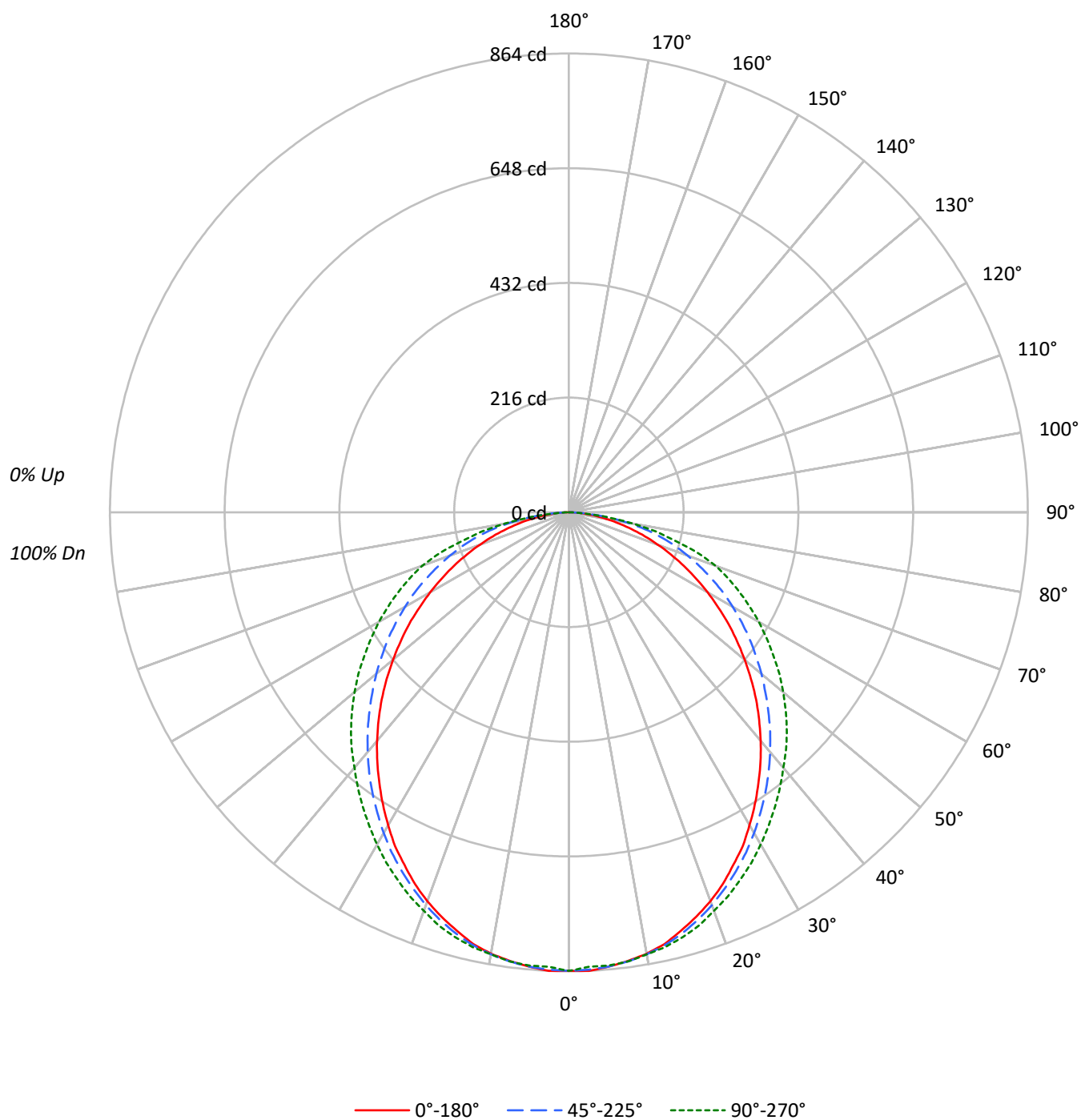
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2323	2323	2323
5°	2320	2320	2314
10°	2306	2309	2309
15°	2272	2288	2307
20°	2231	2254	2286
25°	2175	2212	2266
30°	2114	2166	2244
35°	2044	2119	2223
40°	1974	2070	2205
45°	1896	2022	2208
50°	1809	1981	2205
55°	1724	1947	2204
60°	1622	1916	2222
65°	1521	1890	2252
70°	1405	1870	2308
75°	1265	1857	2141
80°	1111	1728	1869
85°	914	1300	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.4
10°-20°	231.6	9.8
20°-30°	344.0	14.5
30°-40°	404.9	17.1
40°-50°	412.8	17.4
50°-60°	372.3	15.7
60°-70°	293.2	12.4
70°-80°	180.9	7.6
80°-90°	46.9	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°	657.1	27.7
0°-40°	1061.9	44.8
0°-60°	1847.0	78.0
0°-90°	2368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	859	860	859	858	856	81
15°	816	819	821	826	828	230
25°	732	737	745	758	763	338
35°	622	629	645	665	677	389
45°	498	506	531	563	580	384
55°	367	380	415	453	470	328
65°	239	256	297	334	354	237
75°	122	142	179	199	206	130
85°	30	38	42	40	38	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.3	863.3	863.3	863.3	863.3
2.5°	864.4	864.4	862.1	859.9	856.5
5°	858.7	859.9	858.7	857.6	856.5
7.5°	851.9	853.0	853.0	853.0	853.0
10°	843.9	845.1	845.1	845.1	845.1
12.5°	832.6	833.7	834.8	836.0	838.3
15°	815.5	818.9	821.2	825.7	828.0
17.5°	798.4	801.9	805.3	811.0	815.5
20°	779.1	781.4	787.1	793.9	798.4
22.5°	757.5	760.9	766.6	775.7	782.5
25°	732.5	737.0	745.0	757.5	763.2
27.5°	708.6	712.0	722.2	735.9	743.9
30°	680.2	684.7	697.2	714.3	722.2
32.5°	651.7	657.4	671.1	690.4	699.5
35°	622.2	629.0	644.9	665.4	676.7
37.5°	592.6	599.4	617.6	640.3	652.9
40°	561.9	568.7	589.2	614.2	627.8
42.5°	530.0	538.0	560.7	589.2	605.1
45°	498.2	506.1	531.2	563.0	580.1
47.5°	465.2	474.3	501.6	536.8	553.9
50°	432.2	442.4	473.2	509.5	526.6
52.5°	399.2	410.6	443.6	481.1	499.3
55°	367.4	379.9	415.1	452.7	469.7
57.5°	333.3	348.0	385.6	422.0	441.3
60°	301.4	317.3	356.0	392.4	412.9
62.5°	269.6	286.6	327.6	364.0	383.3
65°	238.9	255.9	296.9	334.4	353.7
67.5°	208.1	227.5	267.3	304.8	324.2
70°	178.6	199.0	237.7	274.1	293.4
72.5°	150.1	170.6	209.3	243.4	254.8
75°	121.7	142.2	178.6	199.0	205.9
77.5°	95.5	114.9	146.7	159.2	168.3
80°	71.7	88.7	111.5	119.4	120.6
82.5°	48.9	63.7	77.3	78.5	77.3
85°	29.6	37.5	42.1	39.8	37.5
87.5°	13.6	14.8	13.6	9.1	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)