

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: P259506

Luminaire Tested: **22CZ-LD5-24-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259506
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-LD5-24-S-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2343.0 lumens
Efficiency: N/A
Efficacy: 129.2 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

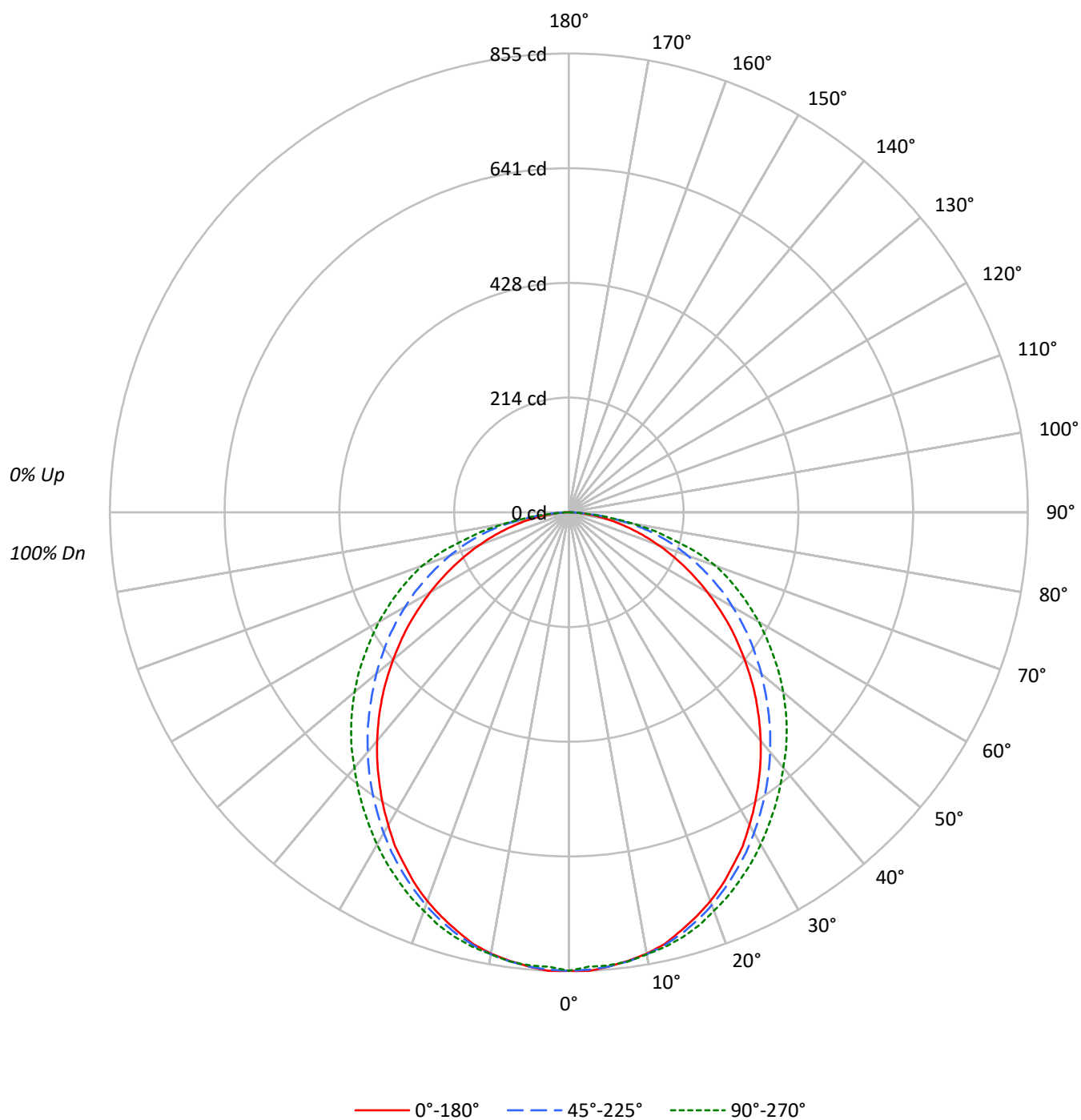
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2299	2299	2299
5°	2295	2295	2289
10°	2282	2285	2285
15°	2248	2264	2282
20°	2208	2230	2262
25°	2152	2189	2242
30°	2091	2144	2220
35°	2022	2096	2200
40°	1953	2048	2182
45°	1876	2000	2184
50°	1790	1960	2182
55°	1705	1927	2181
60°	1605	1896	2199
65°	1505	1870	2229
70°	1390	1851	2284
75°	1252	1837	2118
80°	1099	1709	1849
85°	905	1284	1145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.4
10°-20°	229.1	9.8
20°-30°	340.3	14.5
30°-40°	400.6	17.1
40°-50°	408.4	17.4
50°-60°	368.3	15.7
60°-70°	290.1	12.4
70°-80°	179.0	7.6
80°-90°	46.5	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°	650.1	27.7
0°-40°	1050.7	44.8
0°-60°	1827.5	78.0
0°-90°	2343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	850	851	850	848	847	81
15°	807	810	812	817	819	228
25°	725	729	737	750	755	334
35°	616	622	638	658	670	385
45°	493	501	526	557	574	380
55°	364	376	411	448	465	324
65°	236	253	294	331	350	234
75°	120	141	177	197	204	128
85°	29	37	42	39	37	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.2	854.2	854.2	854.2	854.2
2.5°	855.3	855.3	853.0	850.8	847.4
5°	849.7	850.8	849.7	848.5	847.4
7.5°	842.9	844.0	844.0	844.0	844.0
10°	835.0	836.2	836.2	836.2	836.2
12.5°	823.8	824.9	826.0	827.2	829.4
15°	806.9	810.3	812.5	817.0	819.3
17.5°	790.0	793.4	796.8	802.4	806.9
20°	770.9	773.1	778.8	785.5	790.0
22.5°	749.5	752.9	758.5	767.5	774.3
25°	724.7	729.2	737.1	749.5	755.1
27.5°	701.1	704.5	714.6	728.1	736.0
30°	673.0	677.5	689.9	706.7	714.6
32.5°	644.8	650.5	664.0	683.1	692.1
35°	615.6	622.3	638.1	658.3	669.6
37.5°	586.3	593.1	611.1	633.6	646.0
40°	555.9	562.7	582.9	607.7	621.2
42.5°	524.4	532.3	554.8	582.9	598.7
45°	492.9	500.8	525.6	557.1	573.9
47.5°	460.3	469.3	496.3	531.2	548.1
50°	427.6	437.8	468.2	504.2	521.1
52.5°	395.0	406.3	438.9	476.0	494.0
55°	363.5	375.9	410.8	447.9	464.8
57.5°	329.7	344.4	381.5	417.5	436.6
60°	298.2	314.0	352.2	388.3	408.5
62.5°	266.7	283.6	324.1	360.1	379.3
65°	236.3	253.2	293.7	330.9	350.0
67.5°	205.9	225.1	264.5	301.6	320.7
70°	176.7	196.9	235.2	271.2	290.3
72.5°	148.5	168.8	207.1	240.8	252.1
75°	120.4	140.7	176.7	196.9	203.7
77.5°	94.5	113.7	145.2	157.6	166.6
80°	70.9	87.8	110.3	118.2	119.3
82.5°	48.4	63.0	76.5	77.7	76.5
85°	29.3	37.1	41.6	39.4	37.1
87.5°	13.5	14.6	13.5	9.0	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)