

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: P259381

Luminaire Tested: **22CZ-LD5-24-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259381
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-L83050-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: 2349.0 lumens
Efficiency: N/A
Efficacy: 133.6 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

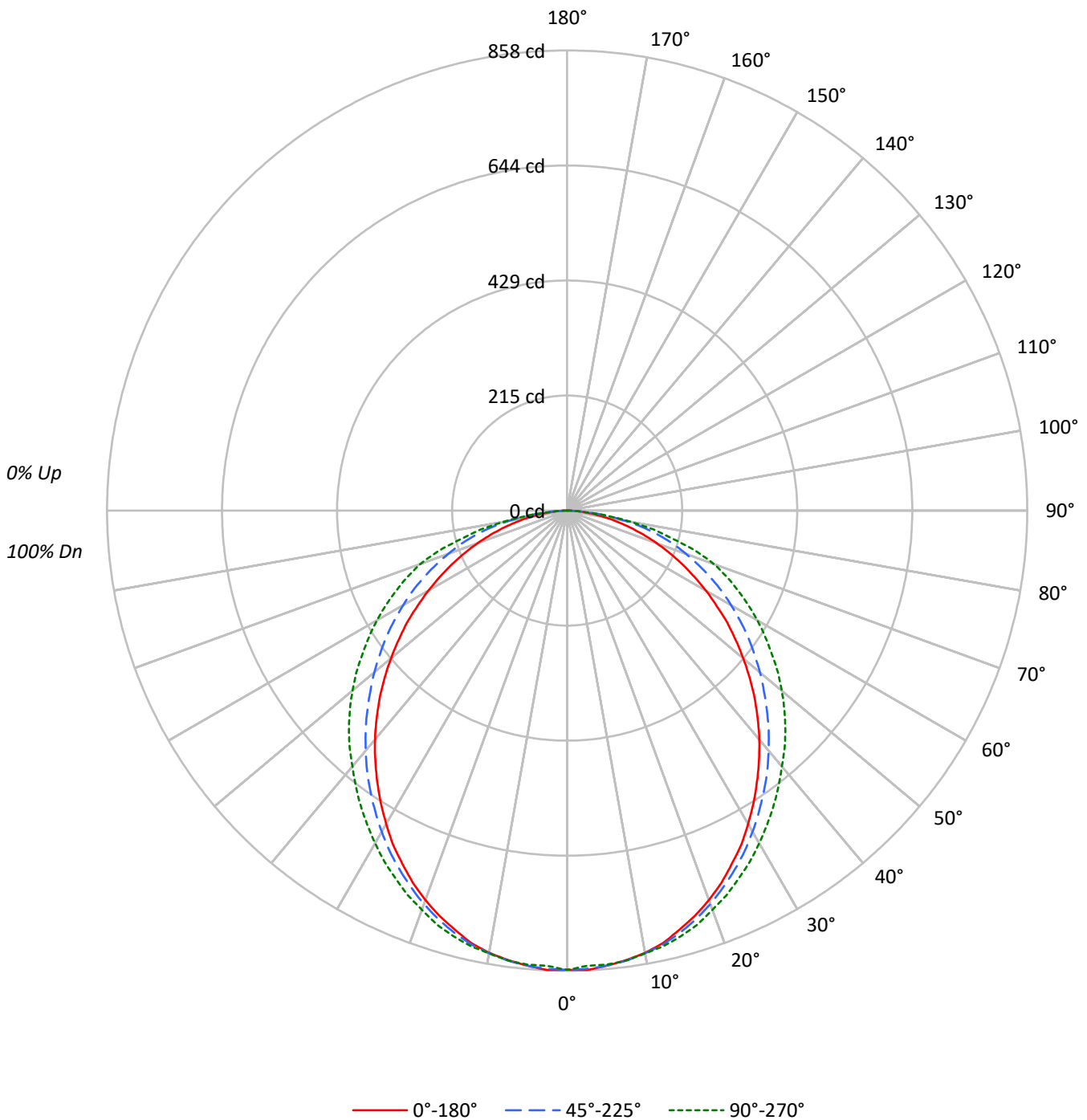
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2304	2304	2304
5°	2301	2301	2295
10°	2288	2291	2291
15°	2254	2269	2288
20°	2213	2236	2268
25°	2157	2194	2248
30°	2096	2149	2226
35°	2028	2101	2205
40°	1958	2053	2188
45°	1881	2005	2190
50°	1795	1965	2187
55°	1710	1932	2186
60°	1609	1900	2204
65°	1508	1875	2234
70°	1393	1855	2290
75°	1255	1841	2123
80°	1102	1714	1853
85°	905	1288	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.4
10°-20°	229.7	9.8
20°-30°	341.2	14.5
30°-40°	401.6	17.1
40°-50°	409.5	17.4
50°-60°	369.3	15.7
60°-70°	290.9	12.4
70°-80°	179.4	7.6
80°-90°	46.6	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°	651.8	27.7
0°-40°	1053.4	44.8
0°-60°	1832.1	78.0
0°-90°	2349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	852	853	852	851	850	81
15°	809	812	815	819	821	228
25°	727	731	739	751	757	335
35°	617	624	640	660	671	386
45°	494	502	527	558	575	381
55°	364	377	412	449	466	325
65°	237	254	294	332	351	235
75°	121	141	177	197	204	129
85°	29	37	42	40	37	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.3	856.3	856.3	856.3	856.3
2.5°	857.5	857.5	855.2	853.0	849.6
5°	851.8	853.0	851.8	850.7	849.6
7.5°	845.1	846.2	846.2	846.2	846.2
10°	837.2	838.3	838.3	838.3	838.3
12.5°	825.9	827.0	828.1	829.3	831.5
15°	809.0	812.3	814.6	819.1	821.4
17.5°	792.0	795.4	798.8	804.4	809.0
20°	772.9	775.1	780.8	787.5	792.0
22.5°	751.4	754.8	760.4	769.5	776.2
25°	726.6	731.1	739.0	751.4	757.1
27.5°	702.9	706.3	716.4	730.0	737.9
30°	674.7	679.2	691.6	708.5	716.4
32.5°	646.5	652.1	665.7	684.9	693.9
35°	617.2	623.9	639.7	660.0	671.3
37.5°	587.8	594.6	612.6	635.2	647.6
40°	557.4	564.1	584.4	609.3	622.8
42.5°	525.8	533.7	556.2	584.4	600.2
45°	494.2	502.1	526.9	558.5	575.4
47.5°	461.5	470.5	497.6	532.5	549.5
50°	428.7	438.9	469.4	505.5	522.4
52.5°	396.0	407.3	440.0	477.3	495.3
55°	364.4	376.8	411.8	449.0	466.0
57.5°	330.6	345.2	382.5	418.6	437.8
60°	299.0	314.8	353.1	389.2	409.6
62.5°	267.4	284.3	324.9	361.0	380.2
65°	236.9	253.9	294.5	331.7	350.9
67.5°	206.5	225.7	265.1	302.4	321.6
70°	177.1	197.4	235.8	271.9	291.1
72.5°	148.9	169.2	207.6	241.4	252.7
75°	120.7	141.0	177.1	197.4	204.2
77.5°	94.8	114.0	145.5	158.0	167.0
80°	71.1	88.0	110.6	118.5	119.6
82.5°	48.5	63.2	76.7	77.8	76.7
85°	29.3	37.2	41.7	39.5	37.2
87.5°	13.5	14.7	13.5	9.0	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)