

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: P259413

Luminaire Tested: **22CZ-LD5-24-S-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259413
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-L93050-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2282.0 lumens
Efficiency: N/A
Efficacy: 126.5 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

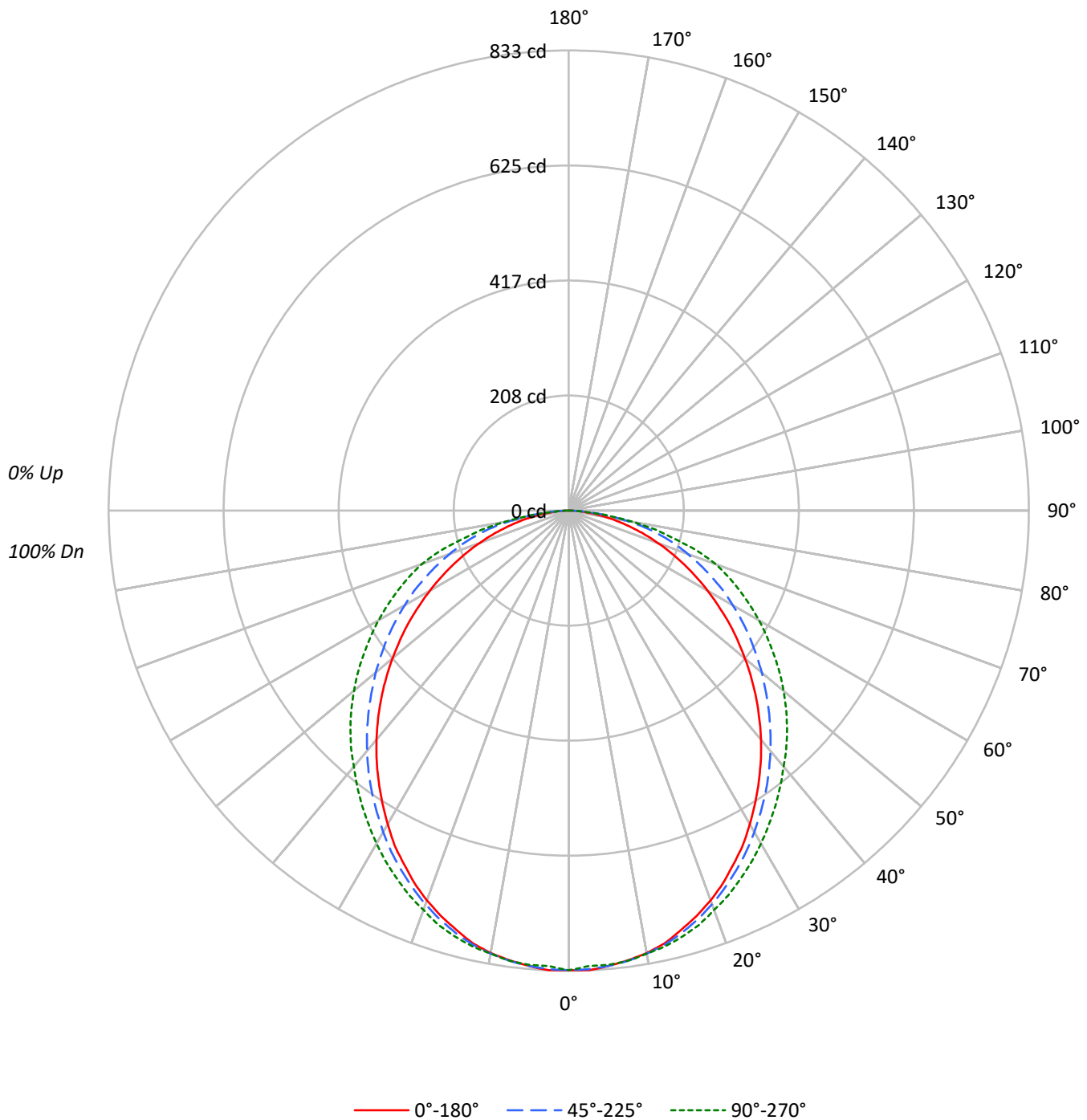
Input Watts (W): 18.034002
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2239	2239	2239
5°	2235	2235	2229
10°	2222	2225	2225
15°	2189	2205	2223
20°	2150	2172	2203
25°	2096	2132	2184
30°	2037	2088	2163
35°	1970	2042	2143
40°	1902	1995	2125
45°	1827	1948	2127
50°	1744	1909	2125
55°	1661	1877	2124
60°	1563	1847	2141
65°	1466	1822	2171
70°	1354	1803	2225
75°	1220	1789	2063
80°	1071	1664	1801
85°	880	1254	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.4
10°-20°	223.2	9.8
20°-30°	331.5	14.5
30°-40°	390.2	17.1
40°-50°	397.8	17.4
50°-60°	358.7	15.7
60°-70°	282.6	12.4
70°-80°	174.3	7.6
80°-90°	45.3	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°	633.2	27.7
0°-40°	1023.4	44.8
0°-60°	1779.9	78.0
0°-90°	2282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	828	829	828	826	825	79
15°	786	789	791	796	798	222
25°	706	710	718	730	736	325
35°	600	606	622	641	652	375
45°	480	488	512	543	559	370
55°	354	366	400	436	453	316
65°	230	247	286	322	341	228
75°	117	137	172	192	198	125
85°	28	36	41	38	36	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	831.9	831.9	831.9	831.9	831.9
2.5°	833.0	833.0	830.8	828.6	825.3
5°	827.5	828.6	827.5	826.4	825.3
7.5°	821.0	822.1	822.1	822.1	822.1
10°	813.3	814.4	814.4	814.4	814.4
12.5°	802.3	803.4	804.5	805.6	807.8
15°	785.9	789.2	791.4	795.8	797.9
17.5°	769.4	772.7	776.0	781.5	785.9
20°	750.8	753.0	758.5	765.1	769.4
22.5°	730.0	733.3	738.8	747.5	754.1
25°	705.9	710.3	717.9	730.0	735.5
27.5°	682.9	686.1	696.0	709.2	716.8
30°	655.5	659.8	671.9	688.3	696.0
32.5°	628.1	633.5	646.7	665.3	674.1
35°	599.6	606.1	621.5	641.2	652.2
37.5°	571.1	577.6	595.2	617.1	629.1
40°	541.5	548.0	567.8	591.9	605.0
42.5°	510.8	518.4	540.4	567.8	583.1
45°	480.1	487.8	511.9	542.6	559.0
47.5°	448.3	457.1	483.4	517.3	533.8
50°	416.5	426.4	456.0	491.0	507.5
52.5°	384.7	395.7	427.5	463.6	481.2
55°	354.0	366.1	400.1	436.2	452.7
57.5°	321.2	335.4	371.6	406.6	425.3
60°	290.5	305.8	343.1	378.1	397.9
62.5°	259.8	276.2	315.7	350.7	369.4
65°	230.2	246.6	286.1	322.2	340.9
67.5°	200.6	219.2	257.6	293.7	312.4
70°	172.1	191.8	229.1	264.2	282.8
72.5°	144.7	164.4	201.7	234.6	245.5
75°	117.3	137.0	172.1	191.8	198.4
77.5°	92.1	110.7	141.4	153.5	162.2
80°	69.1	85.5	107.4	115.1	116.2
82.5°	47.1	61.4	74.5	75.6	74.5
85°	28.5	36.2	40.6	38.4	36.2
87.5°	13.2	14.2	13.2	8.8	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)