

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: P259454

Luminaire Tested: **22CZ-LD5-29-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259454
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-L82765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2667.0 lumens
Efficiency: N/A
Efficacy: 128.0 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

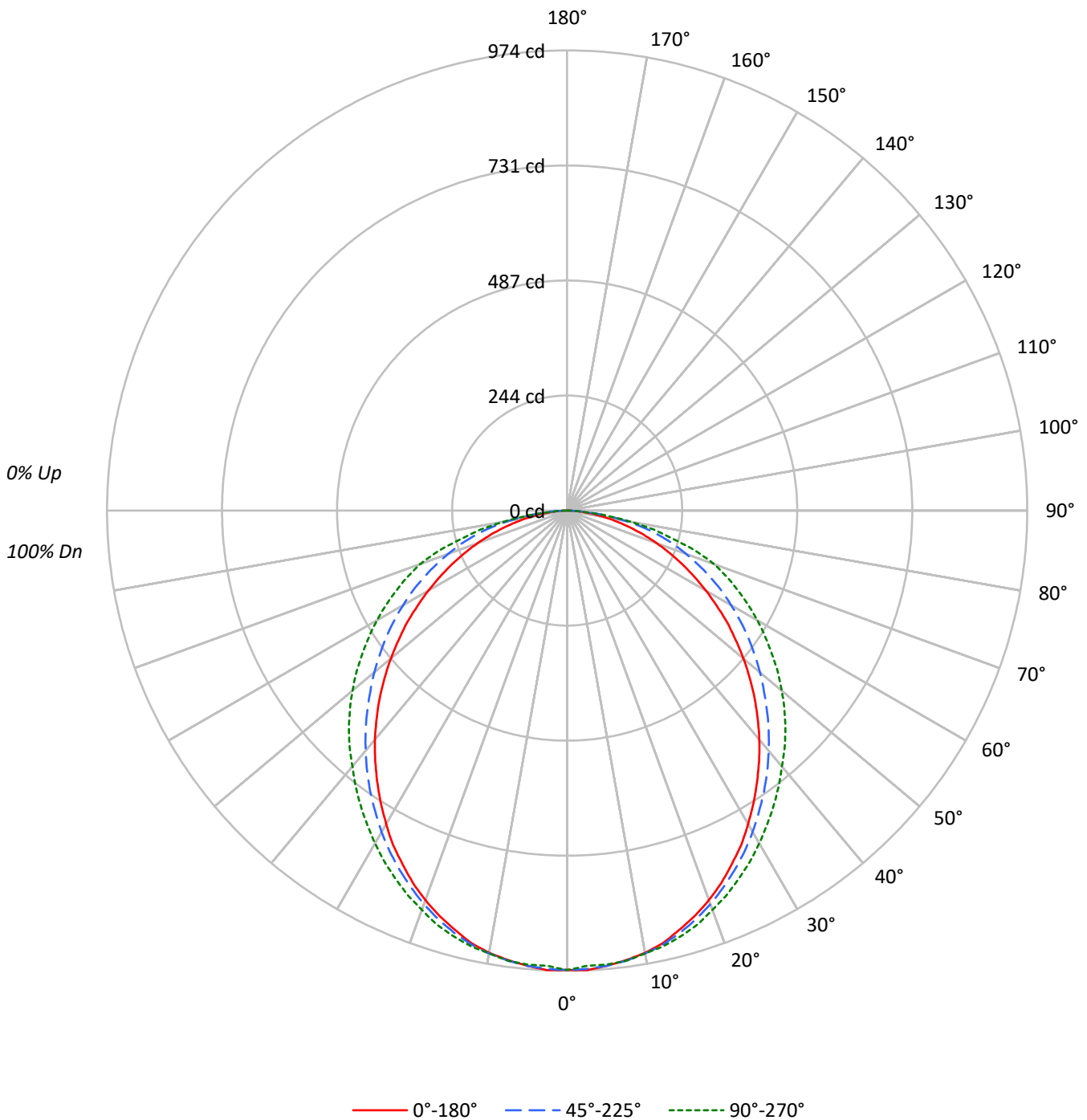
Input Watts (W): 20.832
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2616	2616	2616
5°	2613	2613	2606
10°	2597	2601	2601
15°	2559	2577	2598
20°	2513	2539	2575
25°	2450	2491	2552
30°	2380	2440	2527
35°	2302	2386	2504
40°	2223	2331	2484
45°	2135	2277	2486
50°	2038	2231	2483
55°	1941	2194	2482
60°	1827	2158	2503
65°	1713	2129	2537
70°	1582	2106	2600
75°	1425	2091	2411
80°	1251	1945	2104
85°	1028	1463	1306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.4
10°-20°	260.8	9.8
20°-30°	387.4	14.5
30°-40°	456.0	17.1
40°-50°	464.9	17.4
50°-60°	419.3	15.7
60°-70°	330.2	12.4
70°-80°	203.7	7.6
80°-90°	52.9	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°	740.0	27.7
0°-40°	1196.0	44.8
0°-60°	2080.2	78.0
0°-90°	2667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	967	968	967	966	965	92
15°	918	922	925	930	933	259
25°	825	830	839	853	860	380
35°	701	708	726	749	762	438
45°	561	570	598	634	653	432
55°	414	428	468	510	529	369
65°	269	288	334	377	398	266
75°	137	160	201	224	232	146
85°	33	42	47	45	42	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.3	972.3	972.3	972.3	972.3
2.5°	973.6	973.6	971.0	968.4	964.6
5°	967.2	968.4	967.2	965.9	964.6
7.5°	959.5	960.8	960.8	960.8	960.8
10°	950.5	951.8	951.8	951.8	951.8
12.5°	937.7	939.0	940.3	941.5	944.1
15°	918.5	922.3	924.9	930.0	932.6
17.5°	899.3	903.1	906.9	913.4	918.5
20°	877.5	880.0	886.5	894.1	899.3
22.5°	853.1	857.0	863.4	873.6	881.3
25°	825.0	830.1	839.1	853.1	859.6
27.5°	798.1	801.9	813.4	828.8	837.8
30°	766.0	771.2	785.3	804.5	813.4
32.5°	734.0	740.4	755.8	777.6	787.8
35°	700.7	708.4	726.3	749.4	762.2
37.5°	667.4	675.1	695.6	721.2	735.3
40°	632.8	640.5	663.6	691.7	707.1
42.5°	596.9	605.9	631.5	663.6	681.5
45°	561.1	570.0	598.2	634.1	653.3
47.5°	523.9	534.2	564.9	604.6	623.8
50°	486.8	498.3	532.9	573.9	593.1
52.5°	449.6	462.4	499.6	541.9	562.4
55°	413.8	427.9	467.6	509.8	529.1
57.5°	375.3	392.0	434.3	475.3	497.0
60°	339.5	357.4	401.0	441.9	465.0
62.5°	303.6	322.8	368.9	409.9	431.7
65°	269.0	288.2	334.3	376.6	398.4
67.5°	234.4	256.2	301.0	343.3	365.1
70°	201.1	224.2	267.7	308.7	330.5
72.5°	169.1	192.2	235.7	274.1	286.9
75°	137.1	160.1	201.1	224.2	231.9
77.5°	107.6	129.4	165.2	179.3	189.6
80°	80.7	99.9	125.5	134.5	135.8
82.5°	55.1	71.7	87.1	88.4	87.1
85°	33.3	42.3	47.4	44.8	42.3
87.5°	15.4	16.7	15.4	10.2	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)