

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: P260484

Luminaire Tested: **22CZ-LD5-39-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-39-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2948.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

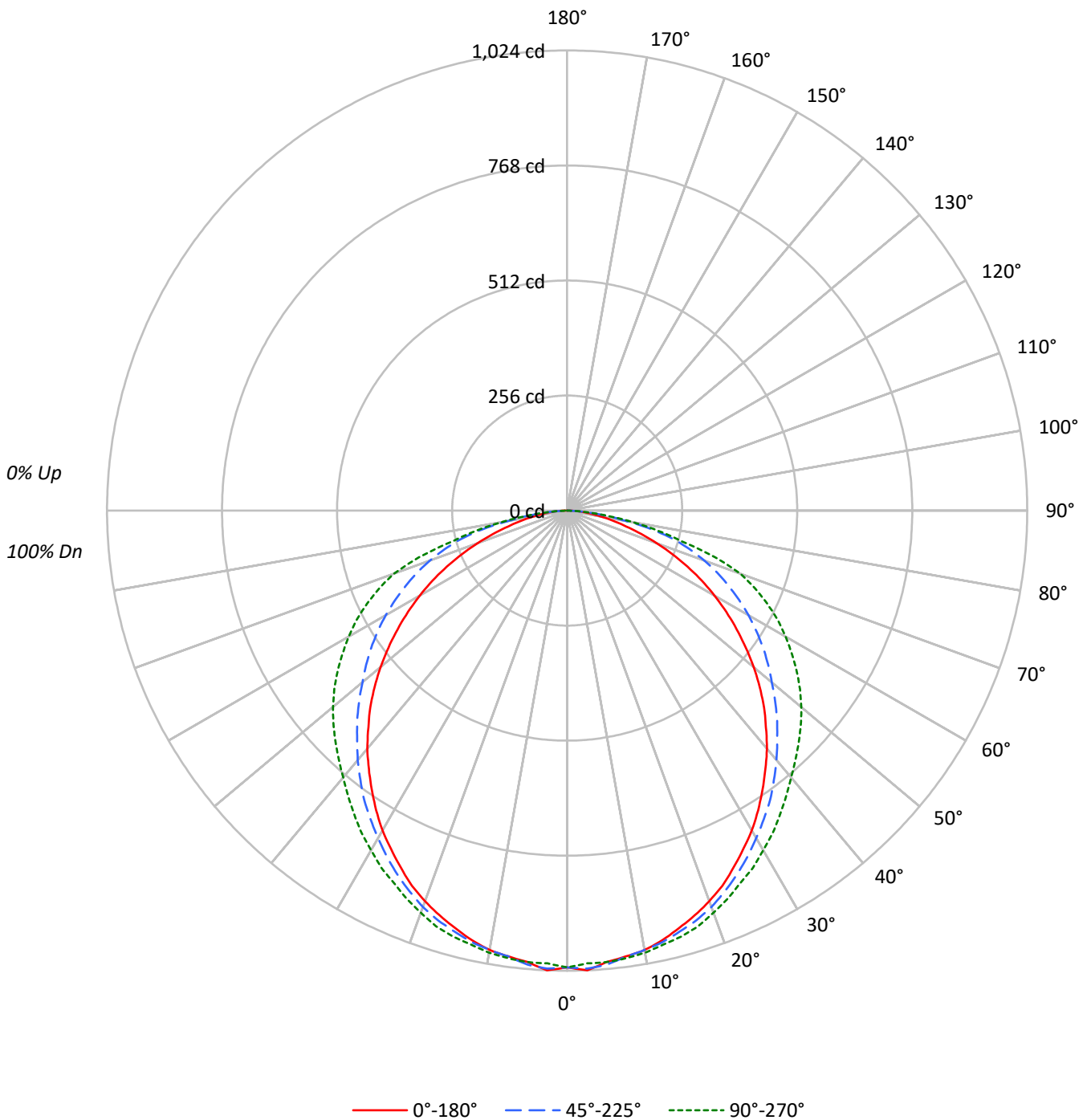
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2735	2735	2735
5°	2724	2740	2724
10°	2713	2713	2729
15°	2680	2701	2734
20°	2649	2688	2727
25°	2602	2654	2712
30°	2554	2615	2711
35°	2490	2585	2713
40°	2430	2546	2724
45°	2359	2514	2773
50°	2270	2490	2848
55°	2161	2498	2927
60°	2039	2510	3023
65°	1881	2524	3131
70°	1666	2553	3226
75°	1414	2546	2748
80°	1175	2047	2289
85°	1019	1380	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	3.3
10°-20°	273.9	9.3
20°-30°	412.1	14.0
30°-40°	493.8	16.8
40°-50°	515.0	17.5
50°-60°	479.5	16.3
60°-70°	389.3	13.2
70°-80°	234.6	8.0
80°-90°	53.8	1.8
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°	782.0	26.5
0°-40°	1275.8	43.3
0°-60°	2270.3	77.0
0°-90°	2948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1009	1009	1014	1016	1009	96
15°	962	966	970	976	981	271
25°	876	882	894	906	913	404
35°	758	768	787	810	826	474
45°	620	632	661	704	729	477
55°	461	480	532	591	624	412
65°	295	326	396	459	492	292
75°	136	181	245	260	264	147
85°	33	41	45	43	43	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.4	1016.4	1016.4	1016.4	1016.4
2.5°	1024.1	1022.2	1020.2	1014.4	1008.6
5°	1008.6	1008.6	1014.4	1016.4	1008.6
7.5°	1000.8	1000.8	1000.8	1008.6	1004.7
10°	993.0	993.0	993.0	998.9	998.9
12.5°	979.4	981.4	983.3	985.3	989.2
15°	961.9	965.8	969.7	975.5	981.4
17.5°	944.5	948.3	956.1	961.9	969.7
20°	925.0	928.9	938.6	944.5	952.2
22.5°	903.6	905.6	917.2	925.0	934.7
25°	876.4	882.3	893.9	905.6	913.4
27.5°	849.2	855.1	868.7	884.2	895.9
30°	822.0	827.9	841.5	860.9	872.6
32.5°	790.9	798.7	814.3	837.6	851.2
35°	757.9	767.6	787.0	810.4	825.9
37.5°	724.9	734.6	756.0	785.1	800.7
40°	691.8	701.5	724.9	756.0	775.4
42.5°	654.9	666.6	691.8	728.7	752.1
45°	619.9	631.6	660.7	703.5	728.7
47.5°	581.1	594.7	627.7	676.3	705.4
50°	542.2	557.7	594.7	649.1	680.2
52.5°	501.4	518.9	563.6	619.9	653.0
55°	460.6	480.0	532.5	590.8	623.8
57.5°	419.8	441.1	499.4	559.7	592.7
60°	378.9	402.3	466.4	528.6	561.6
62.5°	338.1	363.4	431.4	493.6	528.6
65°	295.4	326.5	396.4	458.6	491.7
67.5°	252.6	289.6	361.5	421.7	452.8
70°	211.8	252.6	324.5	380.9	410.0
72.5°	173.0	215.7	285.7	334.3	345.9
75°	136.0	180.7	244.9	260.4	264.3
77.5°	104.9	145.7	194.3	198.2	207.9
80°	75.8	110.8	132.1	143.8	147.7
82.5°	52.5	75.8	87.4	89.4	91.3
85°	33.0	40.8	44.7	42.8	42.8
87.5°	17.5	15.5	13.6	9.7	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)