

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: P260489

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260489
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-LD5-44-RDP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2988.0 lumens
Efficiency: N/A
Efficacy: 86.4 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

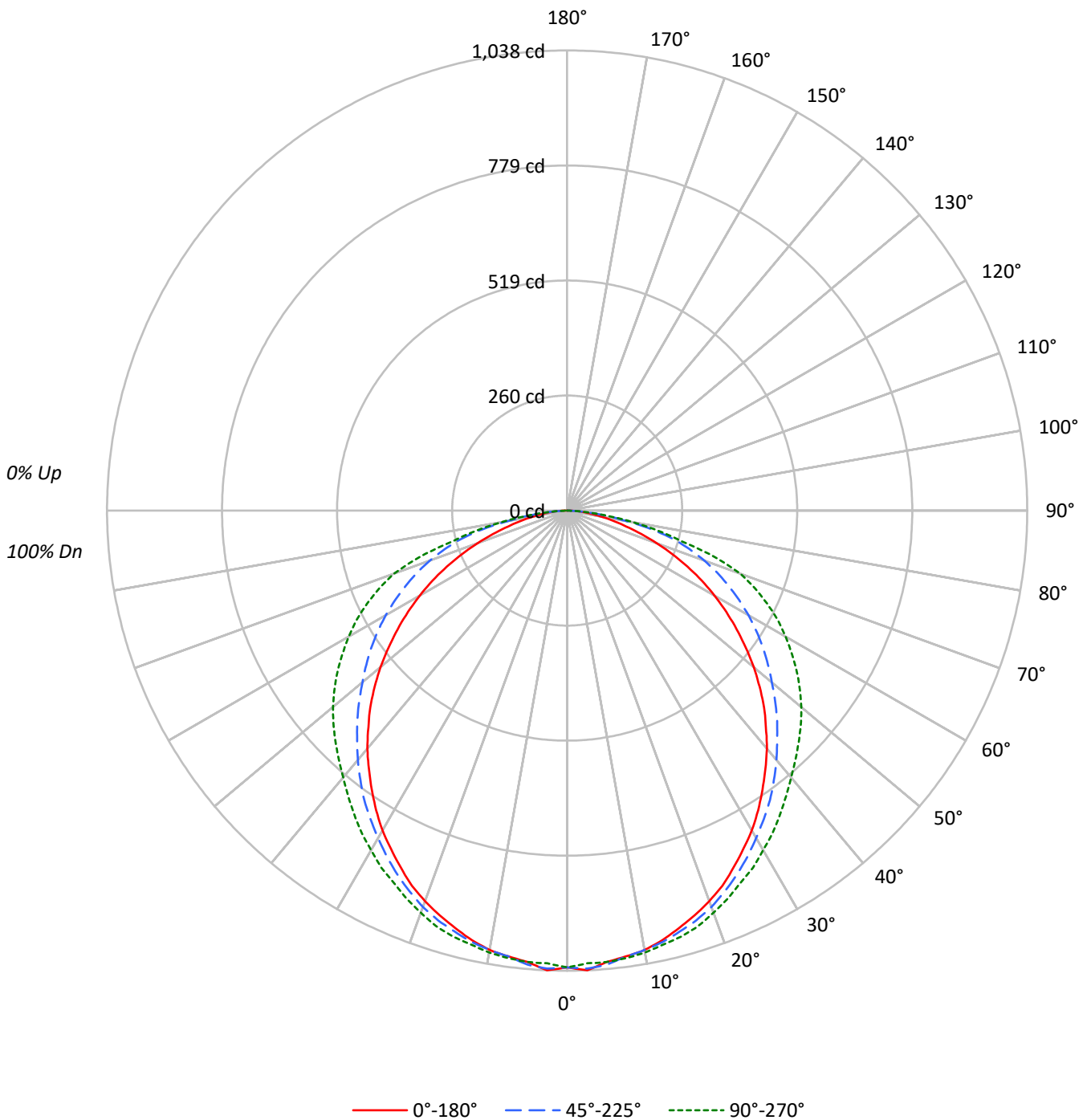
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2772	2772	2772
5°	2761	2777	2761
10°	2750	2750	2766
15°	2716	2738	2771
20°	2685	2725	2764
25°	2638	2690	2749
30°	2589	2650	2748
35°	2524	2621	2750
40°	2463	2581	2761
45°	2391	2549	2811
50°	2300	2523	2886
55°	2190	2532	2966
60°	2067	2544	3063
65°	1906	2558	3173
70°	1689	2588	3270
75°	1434	2581	2785
80°	1190	2075	2320
85°	1034	1399	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	3.3
10°-20°	277.6	9.3
20°-30°	417.7	14.0
30°-40°	500.5	16.8
40°-50°	522.0	17.5
50°-60°	486.0	16.3
60°-70°	394.6	13.2
70°-80°	237.8	8.0
80°-90°	54.5	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°	792.6	26.5
0°-40°	1293.2	43.3
0°-60°	2301.1	77.0
0°-90°	2988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1022	1022	1028	1030	1022	97
15°	975	979	983	989	995	275
25°	888	894	906	918	926	409
35°	768	778	798	821	837	481
45°	628	640	670	713	739	484
55°	467	486	540	599	632	417
65°	299	331	402	465	498	296
75°	138	183	248	264	268	149
85°	34	41	45	43	43	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030.2	1030.2	1030.2	1030.2	1030.2
2.5°	1038.0	1036.1	1034.1	1028.2	1022.3
5°	1022.3	1022.3	1028.2	1030.2	1022.3
7.5°	1014.4	1014.4	1014.4	1022.3	1018.3
10°	1006.5	1006.5	1006.5	1012.4	1012.4
12.5°	992.7	994.7	996.7	998.6	1002.6
15°	975.0	978.9	982.9	988.8	994.7
17.5°	957.3	961.2	969.1	975.0	982.9
20°	937.6	941.5	951.4	957.3	965.2
22.5°	915.9	917.9	929.7	937.6	947.4
25°	888.3	894.2	906.1	917.9	925.8
27.5°	860.8	866.7	880.5	896.2	908.0
30°	833.2	839.1	852.9	872.6	884.4
32.5°	801.7	809.5	825.3	848.9	862.7
35°	768.2	778.0	797.7	821.4	837.1
37.5°	734.7	744.5	766.2	795.8	811.5
40°	701.2	711.1	734.7	766.2	785.9
42.5°	663.8	675.6	701.2	738.6	762.3
45°	628.3	640.2	669.7	713.0	738.6
47.5°	588.9	602.7	636.2	685.5	715.0
50°	549.5	565.3	602.7	657.9	689.4
52.5°	508.2	525.9	571.2	628.3	661.8
55°	466.8	486.5	539.7	598.8	632.3
57.5°	425.5	447.1	506.2	567.3	600.8
60°	384.1	407.7	472.7	535.8	569.2
62.5°	342.7	368.3	437.3	500.3	535.8
65°	299.4	330.9	401.8	464.8	498.3
67.5°	256.1	293.5	366.4	427.4	458.9
70°	214.7	256.1	328.9	386.1	415.6
72.5°	175.3	218.6	289.5	338.8	350.6
75°	137.9	183.2	248.2	263.9	267.9
77.5°	106.4	147.7	197.0	200.9	210.8
80°	76.8	112.3	133.9	145.8	149.7
82.5°	53.2	76.8	88.6	90.6	92.6
85°	33.5	41.4	45.3	43.3	43.3
87.5°	17.7	15.8	13.8	9.8	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)