

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: P260789

Luminaire Tested: **24CZ-LD5-75-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7838.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

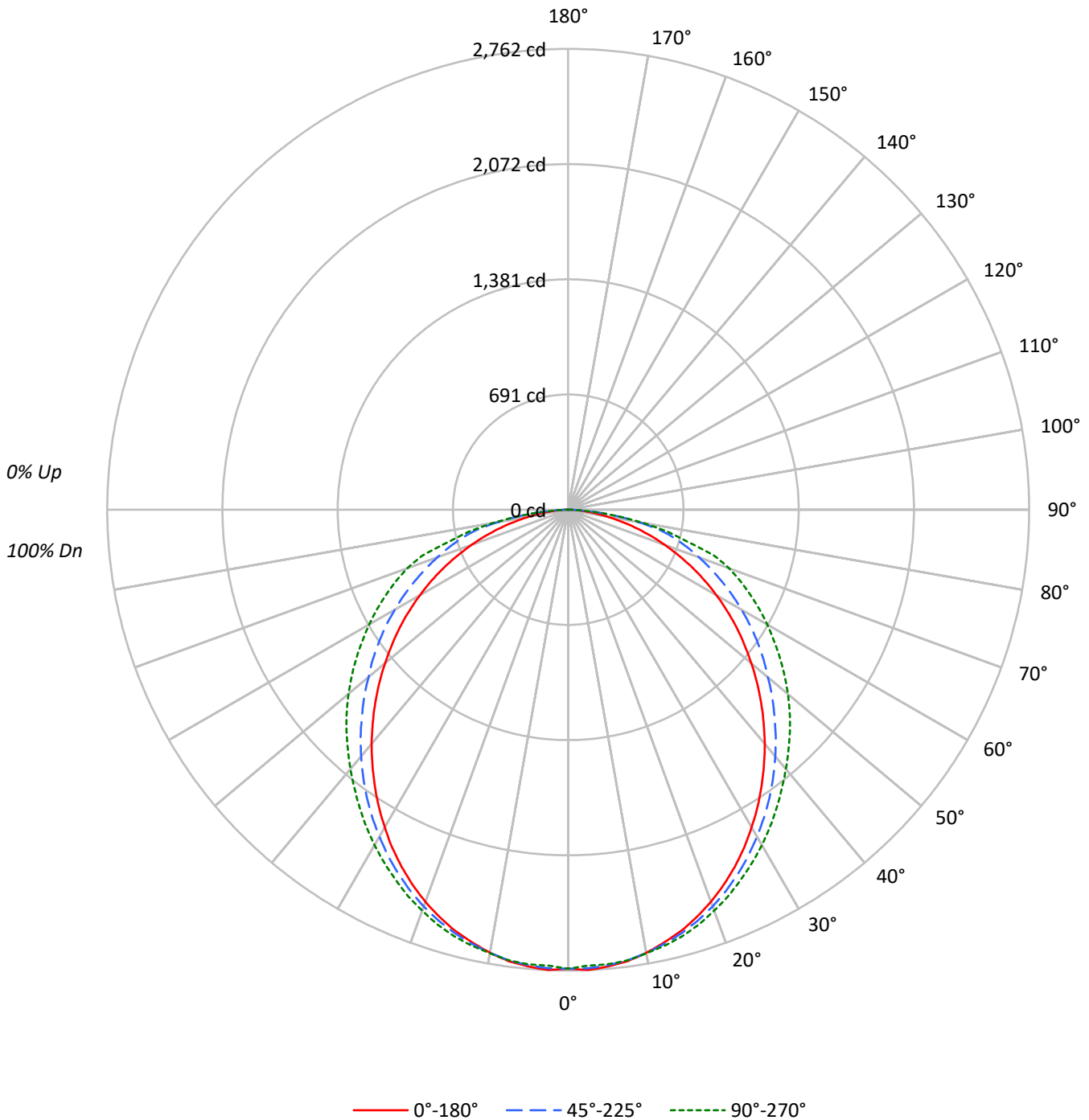
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3701	3701	3701
5°	3712	3701	3693
10°	3685	3685	3688
15°	3641	3660	3686
20°	3581	3624	3662
25°	3506	3574	3634
30°	3415	3515	3606
35°	3319	3456	3579
40°	3219	3389	3563
45°	3110	3324	3574
50°	3000	3269	3595
55°	2890	3248	3632
60°	2759	3228	3705
65°	2614	3230	3828
70°	2418	3283	4033
75°	2163	3432	3837
80°	1809	3285	3514
85°	1368	2527	2404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	3.3
10°-20°	739.8	9.4
20°-30°	1106.0	14.1
30°-40°	1312.0	16.7
40°-50°	1350.4	17.2
50°-60°	1238.8	15.8
60°-70°	1001.7	12.8
70°-80°	650.1	8.3
80°-90°	179.3	2.3
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°	2105.7	26.9
0°-40°	3417.8	43.6
0°-60°	6007.0	76.6
0°-90°	7838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2751	2751	2751	2751	2751	
5°	2748	2729	2740	2737	2735	261
15°	2614	2603	2627	2638	2646	736
25°	2362	2364	2407	2429	2448	1087
35°	2021	2037	2104	2150	2179	1264
45°	1634	1661	1747	1830	1878	1261
55°	1232	1269	1385	1498	1548	1100
65°	821	870	1014	1149	1202	812
75°	416	494	660	738	738	442
85°	89	150	164	158	156	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2750.7	2750.7	2750.7	2750.7	2750.7
2.5°	2761.5	2740.0	2750.7	2748.0	2734.6
5°	2748.0	2729.3	2740.0	2737.3	2734.6
7.5°	2729.3	2710.5	2723.9	2721.2	2723.9
10°	2697.1	2681.0	2697.1	2699.7	2699.7
12.5°	2656.8	2643.4	2664.9	2670.2	2675.6
15°	2613.9	2603.1	2627.3	2638.0	2646.1
17.5°	2560.2	2552.1	2581.7	2595.1	2605.8
20°	2501.2	2498.5	2530.7	2544.1	2557.5
22.5°	2434.1	2434.1	2471.6	2487.7	2506.5
25°	2361.6	2364.3	2407.2	2428.7	2447.5
27.5°	2283.8	2286.5	2337.4	2364.3	2385.8
30°	2197.9	2208.6	2262.3	2297.2	2321.3
32.5°	2112.0	2125.4	2184.5	2224.7	2251.6
35°	2020.8	2036.9	2104.0	2149.6	2179.1
37.5°	1926.9	1945.6	2018.1	2069.1	2104.0
40°	1832.9	1854.4	1929.5	1988.6	2028.8
42.5°	1733.6	1757.8	1841.0	1910.8	1953.7
45°	1634.3	1661.2	1747.0	1830.2	1878.5
47.5°	1535.0	1567.2	1658.5	1749.7	1800.7
50°	1433.1	1465.3	1561.9	1666.5	1717.5
52.5°	1331.1	1368.7	1476.0	1583.3	1634.3
55°	1231.8	1269.4	1384.8	1497.5	1548.5
57.5°	1129.8	1167.4	1293.5	1411.6	1462.6
60°	1025.2	1068.1	1199.6	1320.4	1376.7
62.5°	923.2	968.8	1108.3	1237.2	1290.8
65°	821.2	869.5	1014.4	1148.6	1202.3
67.5°	716.5	772.9	923.2	1060.0	1116.4
70°	614.6	676.3	834.6	971.5	1025.2
72.5°	515.3	582.3	746.1	885.6	917.8
75°	416.0	493.8	660.2	738.0	738.0
77.5°	322.0	407.9	563.6	593.1	609.2
80°	233.5	327.4	424.0	458.9	453.5
82.5°	155.7	249.6	303.3	303.3	295.2
85°	88.6	150.3	163.7	158.3	155.7
87.5°	37.6	56.4	51.0	40.3	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)