

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: P260787

Luminaire Tested: **24CZ-LD5-75-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260787
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7657.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

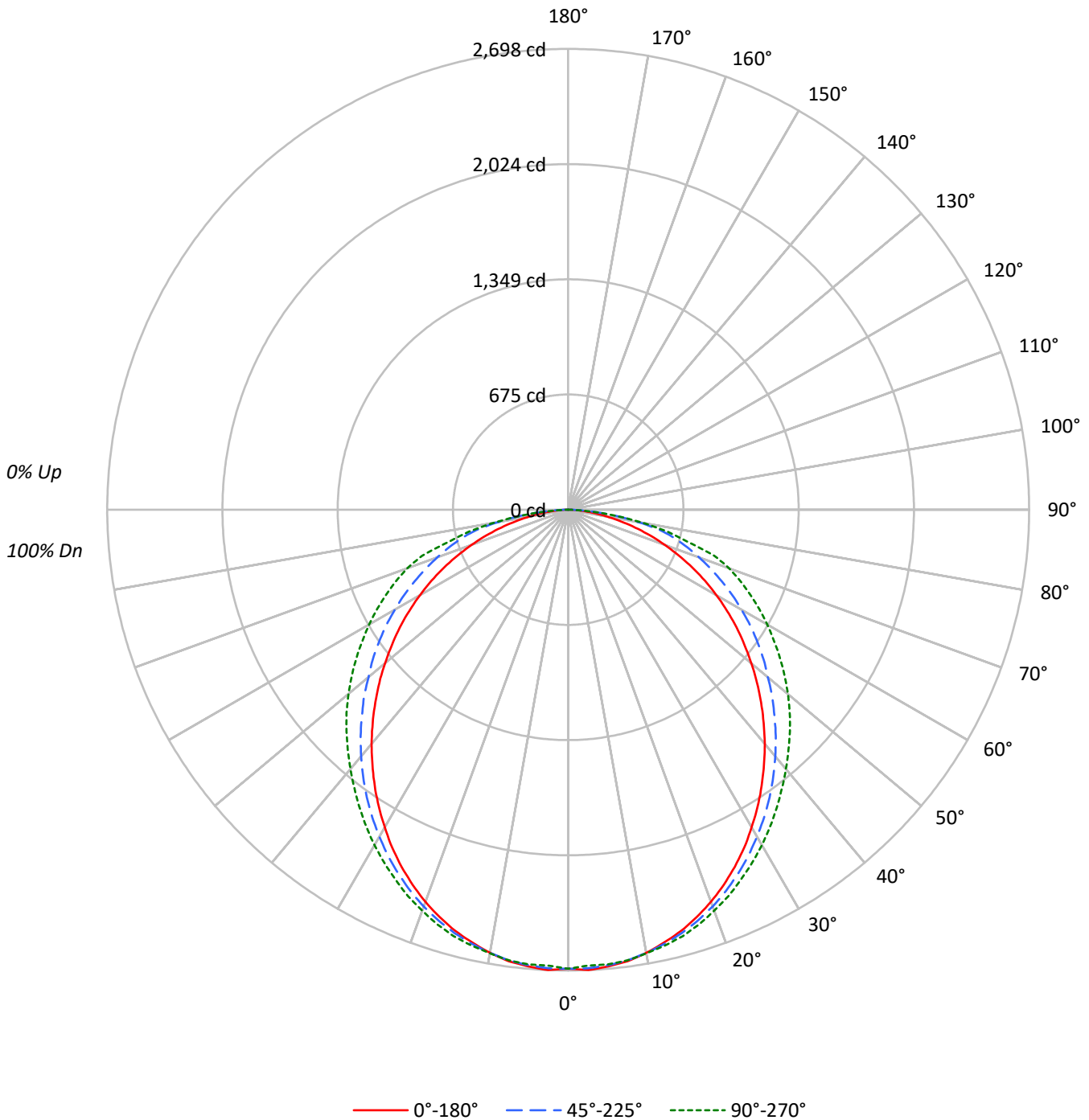
Input Watts (W): 59.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260787

CATALOG NUMBER: 24CZ-LD5-75-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P260787

CATALOG NUMBER: 24CZ-LD5-75-UNV-L82765-W2A1-U-4500K

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°	3616	3616	3616
5°	3626	3615	3608
10°	3600	3600	3603
15°	3557	3575	3601
20°	3499	3540	3577
25°	3425	3491	3550
30°	3336	3434	3523
35°	3243	3376	3497
40°	3145	3311	3481
45°	3038	3248	3492
50°	2930	3194	3512
55°	2823	3173	3548
60°	2695	3154	3619
65°	2554	3155	3739
70°	2362	3207	3940
75°	2113	3353	3748
80°	1767	3209	3433
85°	1335	2468	2348



TEST NUMBER: P260787

CATALOG NUMBER: 24CZ-LD5-75-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.9	3.3
10°-20°	722.7	9.4
20°-30°	1080.4	14.1
30°-40°	1281.7	16.7
40°-50°	1319.2	17.2
50°-60°	1210.2	15.8
60°-70°	978.5	12.8
70°-80°	635.1	8.3
80°-90°	175.1	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°	2057.1	26.9
0°-40°	3338.8	43.6
0°-60°	5868.3	76.6
0°-90°	7657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2687	2687	2687	2687	2687	
5°	2685	2666	2677	2674	2672	255
15°	2554	2543	2567	2577	2585	719
25°	2307	2310	2352	2373	2391	1062
35°	1974	1990	2055	2100	2129	1235
45°	1597	1623	1707	1788	1835	1232
55°	1203	1240	1353	1463	1513	1075
65°	802	849	991	1122	1174	793
75°	406	482	645	721	721	432
85°	86	147	160	155	152	106
90°	0	0	0	0	0	



TEST NUMBER: P260787

CATALOG NUMBER: 24CZ-LD5-75-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2687.2	2687.2	2687.2	2687.2	2687.2
2.5°	2697.7	2676.7	2687.2	2684.6	2671.5
5°	2684.6	2666.2	2676.7	2674.1	2671.5
7.5°	2666.2	2647.9	2661.0	2658.4	2661.0
10°	2634.8	2619.0	2634.8	2637.4	2637.4
12.5°	2595.5	2582.3	2603.3	2608.6	2613.8
15°	2553.5	2543.0	2566.6	2577.1	2585.0
17.5°	2501.1	2493.2	2522.0	2535.2	2545.6
20°	2443.4	2440.8	2472.2	2485.3	2498.4
22.5°	2377.9	2377.9	2414.6	2430.3	2448.6
25°	2307.1	2309.7	2351.6	2372.6	2391.0
27.5°	2231.0	2233.7	2283.5	2309.7	2330.7
30°	2147.1	2157.6	2210.1	2244.1	2267.7
32.5°	2063.3	2076.4	2134.0	2173.4	2199.6
35°	1974.1	1989.8	2055.4	2100.0	2128.8
37.5°	1882.4	1900.7	1971.5	2021.3	2055.4
40°	1790.6	1811.6	1885.0	1942.7	1982.0
42.5°	1693.6	1717.2	1798.5	1866.6	1908.6
45°	1596.6	1622.8	1706.7	1788.0	1835.2
47.5°	1499.6	1531.1	1620.2	1709.3	1759.1
50°	1400.0	1431.4	1525.8	1628.1	1677.9
52.5°	1300.3	1337.1	1441.9	1546.8	1596.6
55°	1203.3	1240.0	1352.8	1462.9	1512.7
57.5°	1103.7	1140.4	1263.6	1379.0	1428.8
60°	1001.5	1043.4	1171.9	1289.9	1344.9
62.5°	901.9	946.4	1082.7	1208.6	1261.0
65°	802.2	849.4	991.0	1122.1	1174.5
67.5°	700.0	755.0	901.9	1035.6	1090.6
70°	600.4	660.7	815.3	949.0	1001.5
72.5°	503.4	568.9	728.8	865.2	896.6
75°	406.4	482.4	644.9	721.0	721.0
77.5°	314.6	398.5	550.6	579.4	595.1
80°	228.1	319.8	414.2	448.3	443.1
82.5°	152.1	243.8	296.2	296.2	288.4
85°	86.5	146.8	159.9	154.7	152.1
87.5°	36.7	55.1	49.8	39.3	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)