

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: P260790

Luminaire Tested: **24CZ-LD5-75-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260790
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7859.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

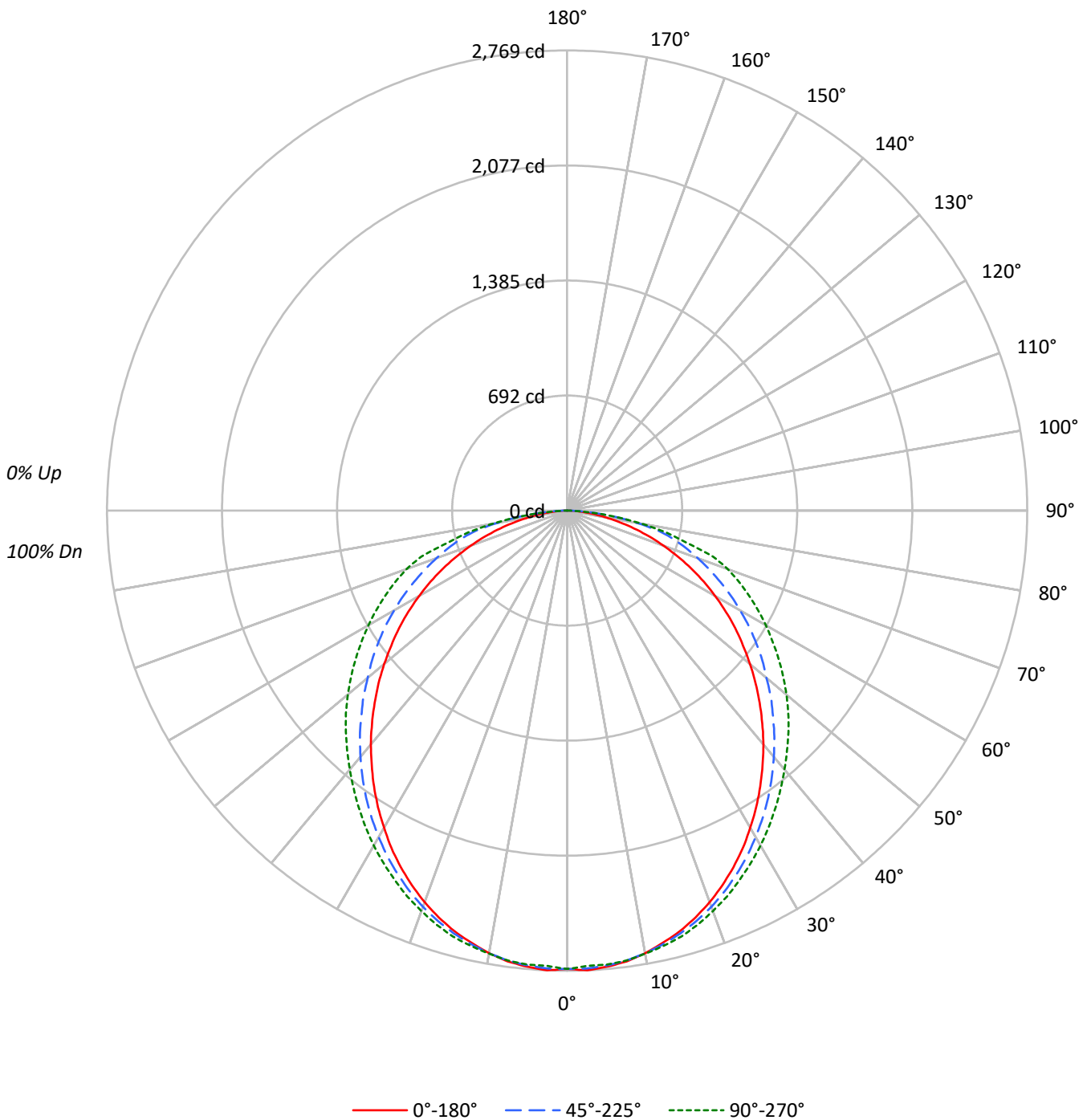
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3711	3711	3711
5°	3722	3711	3703
10°	3695	3695	3698
15°	3651	3669	3696
20°	3591	3633	3672
25°	3515	3583	3643
30°	3424	3524	3616
35°	3328	3465	3589
40°	3228	3398	3573
45°	3118	3333	3584
50°	3008	3278	3605
55°	2897	3257	3642
60°	2766	3237	3715
65°	2621	3238	3838
70°	2424	3292	4044
75°	2168	3441	3847
80°	1814	3295	3524
85°	1371	2533	2410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.6	3.3
10°-20°	741.8	9.4
20°-30°	1108.9	14.1
30°-40°	1315.6	16.7
40°-50°	1354.0	17.2
50°-60°	1242.2	15.8
60°-70°	1004.3	12.8
70°-80°	651.8	8.3
80°-90°	179.7	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°	2111.4	26.9
0°-40°	3426.9	43.6
0°-60°	6023.1	76.6
0°-90°	7859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2758	2758	2758	2758	2758	
5°	2755	2737	2747	2745	2742	261
15°	2621	2610	2634	2645	2653	738
25°	2368	2371	2414	2435	2454	1090
35°	2026	2042	2110	2155	2185	1267
45°	1639	1666	1752	1835	1884	1265
55°	1235	1273	1388	1502	1553	1103
65°	823	872	1017	1152	1206	814
75°	417	495	662	740	740	443
85°	89	151	164	159	156	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2758.1	2758.1	2758.1	2758.1	2758.1
2.5°	2768.9	2747.3	2758.1	2755.4	2742.0
5°	2755.4	2736.6	2747.3	2744.6	2742.0
7.5°	2736.6	2717.7	2731.2	2728.5	2731.2
10°	2704.3	2688.1	2704.3	2707.0	2707.0
12.5°	2663.9	2650.5	2672.0	2677.4	2682.8
15°	2620.9	2610.1	2634.3	2645.1	2653.2
17.5°	2567.1	2559.0	2588.6	2602.0	2612.8
20°	2507.9	2505.2	2537.5	2550.9	2564.4
22.5°	2440.6	2440.6	2478.3	2494.4	2513.2
25°	2367.9	2370.6	2413.7	2435.2	2454.0
27.5°	2289.9	2292.6	2343.7	2370.6	2392.1
30°	2203.8	2214.6	2268.4	2303.4	2327.6
32.5°	2117.7	2131.1	2190.3	2230.7	2257.6
35°	2026.2	2042.3	2109.6	2155.4	2185.0
37.5°	1932.0	1950.9	2023.5	2074.6	2109.6
40°	1837.8	1859.4	1934.7	1993.9	2034.3
42.5°	1738.3	1762.5	1845.9	1915.9	1958.9
45°	1638.7	1665.6	1751.7	1835.1	1883.6
47.5°	1539.2	1571.4	1662.9	1754.4	1805.5
50°	1436.9	1469.2	1566.1	1671.0	1722.1
52.5°	1334.7	1372.3	1480.0	1587.6	1638.7
55°	1235.1	1272.8	1388.5	1501.5	1552.6
57.5°	1132.8	1170.5	1297.0	1415.4	1466.5
60°	1027.9	1071.0	1202.8	1323.9	1380.4
62.5°	925.6	971.4	1111.3	1240.5	1294.3
65°	823.4	871.8	1017.1	1151.7	1205.5
67.5°	718.5	775.0	925.6	1062.9	1119.4
70°	616.2	678.1	836.8	974.1	1027.9
72.5°	516.6	583.9	748.1	888.0	920.3
75°	417.1	495.1	661.9	740.0	740.0
77.5°	322.9	409.0	565.1	594.7	610.8
80°	234.1	328.3	425.2	460.1	454.8
82.5°	156.1	250.2	304.1	304.1	296.0
85°	88.8	150.7	164.1	158.8	156.1
87.5°	37.7	56.5	51.1	40.4	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)