

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: P260926

Luminaire Tested: **24CZ-LD5-75-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260926
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-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7154.0 lumens
Efficiency: N/A
Efficacy: 117.1 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

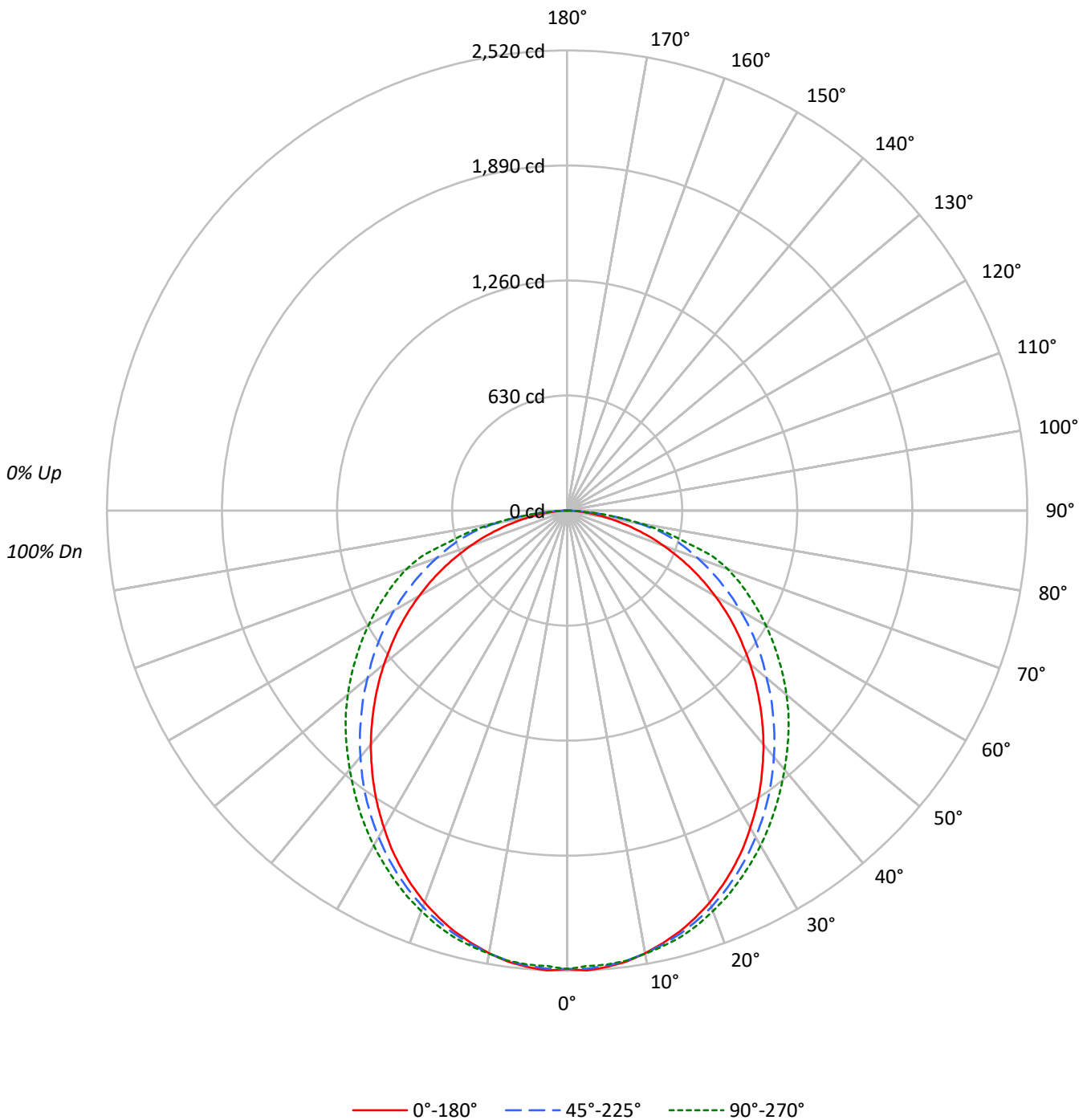
Input Watts (W): 61.101
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260926

CATALOG NUMBER: 24CZ-LD5-75-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P260926

CATALOG NUMBER: 24CZ-LD5-75-UNV-L92765-W2A1-U-6500K

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°	3378	3378	3378
5°	3388	3378	3371
10°	3363	3363	3367
15°	3323	3340	3364
20°	3269	3307	3342
25°	3200	3262	3316
30°	3117	3208	3292
35°	3029	3154	3267
40°	2938	3093	3253
45°	2838	3034	3263
50°	2738	2984	3281
55°	2637	2965	3315
60°	2518	2946	3381
65°	2386	2948	3494
70°	2207	2997	3681
75°	1974	3133	3502
80°	1651	2999	3208
85°	1247	2306	2194



TEST NUMBER: P260926

CATALOG NUMBER: 24CZ-LD5-75-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.2	3.3
10°-20°	675.2	9.4
20°-30°	1009.5	14.1
30°-40°	1197.5	16.7
40°-50°	1232.6	17.2
50°-60°	1130.7	15.8
60°-70°	914.2	12.8
70°-80°	593.3	8.3
80°-90°	163.6	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°	1922.0	26.9
0°-40°	3119.5	43.6
0°-60°	5482.8	76.6
0°-90°	7154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2511	2511	2511	2511	2511	
5°	2508	2491	2501	2498	2496	238
15°	2386	2376	2398	2408	2415	672
25°	2156	2158	2197	2217	2234	992
35°	1844	1859	1920	1962	1989	1153
45°	1492	1516	1595	1670	1715	1151
55°	1124	1159	1264	1367	1413	1004
65°	750	794	926	1048	1097	741
75°	380	451	603	674	674	404
85°	81	137	149	144	142	99
90°	0	0	0	0	0	



TEST NUMBER: P260926

CATALOG NUMBER: 24CZ-LD5-75-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2510.7	2510.7	2510.7	2510.7	2510.7
2.5°	2520.5	2500.9	2510.7	2508.2	2496.0
5°	2508.2	2491.1	2500.9	2498.4	2496.0
7.5°	2491.1	2473.9	2486.2	2483.7	2486.2
10°	2461.7	2447.0	2461.7	2464.1	2464.1
12.5°	2425.0	2412.7	2432.3	2437.2	2442.1
15°	2385.8	2376.0	2398.0	2407.8	2415.2
17.5°	2336.8	2329.4	2356.4	2368.6	2378.4
20°	2282.9	2280.4	2309.8	2322.1	2334.3
22.5°	2221.6	2221.6	2255.9	2270.6	2287.8
25°	2155.5	2158.0	2197.2	2216.7	2233.9
27.5°	2084.5	2086.9	2133.5	2158.0	2177.6
30°	2006.1	2015.9	2064.9	2096.7	2118.8
32.5°	1927.7	1940.0	1993.8	2030.6	2055.1
35°	1844.4	1859.1	1920.4	1962.0	1989.0
37.5°	1758.7	1775.8	1842.0	1888.5	1920.4
40°	1673.0	1692.6	1761.2	1815.0	1851.8
42.5°	1582.3	1604.4	1680.3	1744.0	1783.2
45°	1491.7	1516.2	1594.6	1670.5	1714.6
47.5°	1401.1	1430.5	1513.8	1597.0	1643.6
50°	1308.0	1337.4	1425.6	1521.1	1567.6
52.5°	1214.9	1249.2	1347.2	1445.2	1491.7
55°	1124.3	1158.6	1263.9	1366.8	1413.3
57.5°	1031.2	1065.5	1180.6	1288.4	1334.9
60°	935.7	974.9	1094.9	1205.1	1256.6
62.5°	842.6	884.2	1011.6	1129.2	1178.2
65°	749.5	793.6	925.9	1048.4	1097.4
67.5°	654.0	705.4	842.6	967.5	1019.0
70°	560.9	617.3	761.8	886.7	935.7
72.5°	470.3	531.5	680.9	808.3	837.7
75°	379.7	450.7	602.6	673.6	673.6
77.5°	293.9	372.3	514.4	541.3	556.0
80°	213.1	298.8	387.0	418.9	414.0
82.5°	142.1	227.8	276.8	276.8	269.4
85°	80.8	137.2	149.4	144.5	142.1
87.5°	34.3	51.4	46.5	36.7	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)