

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: P260898

Luminaire Tested: **24CZ-LD5-60-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260898
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-LD5-60-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5687.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

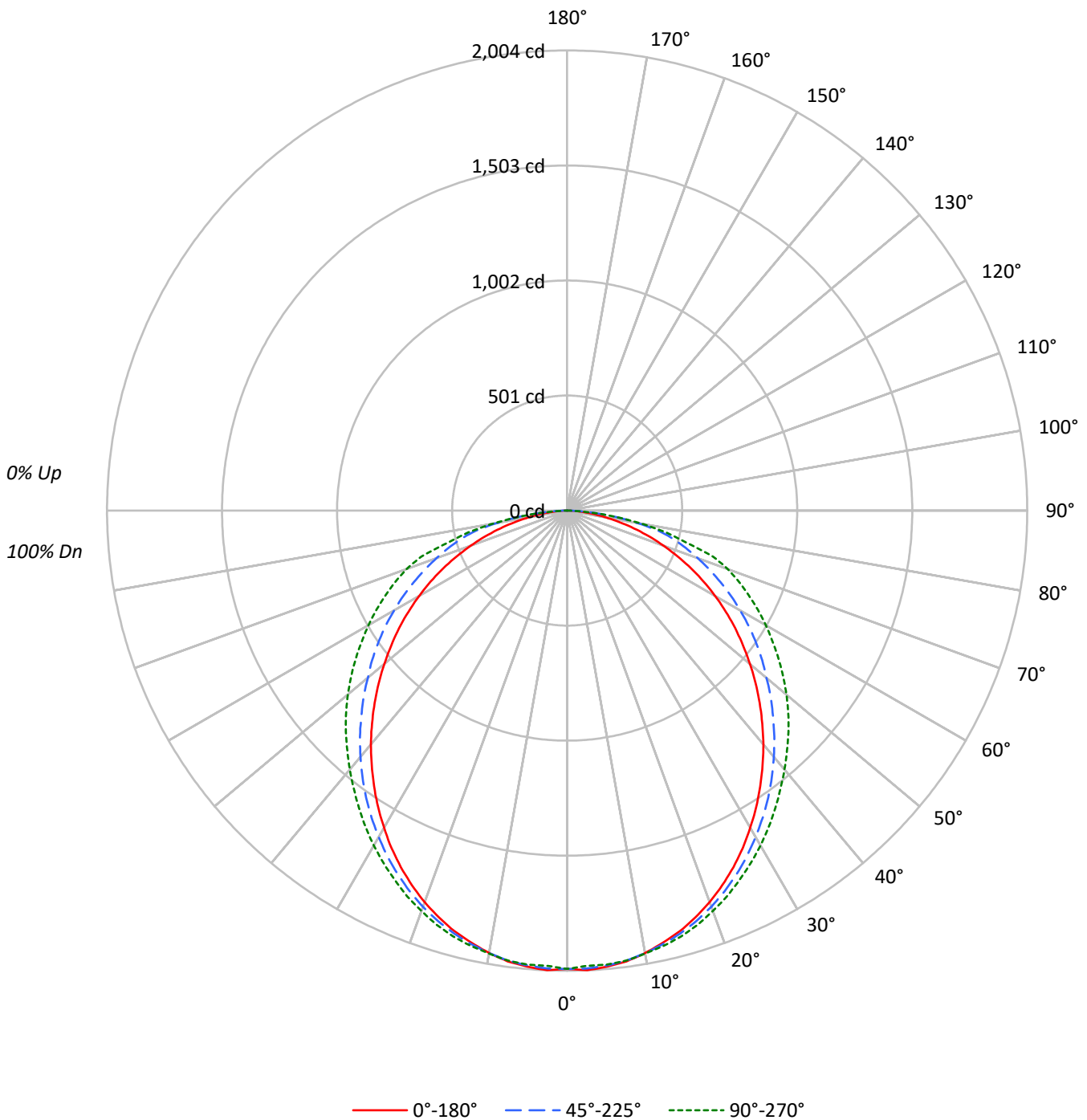
Input Watts (W): 45.57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2685	2685	2685
5°	2693	2685	2680
10°	2674	2674	2676
15°	2642	2655	2674
20°	2599	2629	2657
25°	2544	2593	2636
30°	2478	2550	2617
35°	2408	2508	2597
40°	2336	2459	2586
45°	2256	2412	2594
50°	2177	2372	2609
55°	2096	2357	2635
60°	2002	2342	2688
65°	1897	2343	2777
70°	1754	2382	2926
75°	1569	2490	2784
80°	1313	2384	2550
85°	993	1834	1743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	3.3
10°-20°	536.8	9.4
20°-30°	802.5	14.1
30°-40°	952.0	16.7
40°-50°	979.8	17.2
50°-60°	898.9	15.8
60°-70°	726.8	12.8
70°-80°	471.7	8.3
80°-90°	130.1	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°	1527.8	26.9
0°-40°	2479.8	43.6
0°-60°	4358.5	76.6
0°-90°	5687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1996	1996	1996	1996	1996	
5°	1994	1980	1988	1986	1984	189
15°	1896	1889	1906	1914	1920	534
25°	1714	1715	1747	1762	1776	789
35°	1466	1478	1527	1560	1581	917
45°	1186	1205	1268	1328	1363	915
55°	894	921	1005	1086	1124	798
65°	596	631	736	833	872	589
75°	302	358	479	536	536	321
85°	64	109	119	115	113	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1995.8	1995.8	1995.8	1995.8	1995.8
2.5°	2003.6	1988.1	1995.8	1993.9	1984.2
5°	1993.9	1980.3	1988.1	1986.1	1984.2
7.5°	1980.3	1966.6	1976.4	1974.4	1976.4
10°	1956.9	1945.2	1956.9	1958.8	1958.8
12.5°	1927.7	1918.0	1933.5	1937.4	1941.3
15°	1896.5	1888.7	1906.3	1914.1	1919.9
17.5°	1857.6	1851.8	1873.2	1882.9	1890.7
20°	1814.8	1812.8	1836.2	1845.9	1855.6
22.5°	1766.1	1766.1	1793.3	1805.0	1818.6
25°	1713.5	1715.4	1746.6	1762.2	1775.8
27.5°	1657.0	1659.0	1696.0	1715.4	1731.0
30°	1594.7	1602.5	1641.5	1666.8	1684.3
32.5°	1532.4	1542.2	1585.0	1614.2	1633.7
35°	1466.2	1477.9	1526.6	1559.7	1581.1
37.5°	1398.1	1411.7	1464.3	1501.3	1526.6
40°	1329.9	1345.5	1400.0	1442.8	1472.1
42.5°	1257.9	1275.4	1335.8	1386.4	1417.5
45°	1185.8	1205.3	1267.6	1328.0	1363.0
47.5°	1113.8	1137.1	1203.3	1269.5	1306.5
50°	1039.8	1063.2	1133.2	1209.2	1246.2
52.5°	965.8	993.1	1070.9	1148.8	1185.8
55°	893.7	921.0	1004.7	1086.5	1123.5
57.5°	819.8	847.0	938.5	1024.2	1061.2
60°	743.8	775.0	870.4	958.0	998.9
62.5°	669.8	702.9	804.2	897.6	936.6
65°	595.8	630.9	736.0	833.4	872.3
67.5°	519.9	560.8	669.8	769.1	810.0
70°	445.9	490.7	605.6	704.9	743.8
72.5°	373.9	422.5	541.3	642.6	665.9
75°	301.8	358.3	479.0	535.5	535.5
77.5°	233.7	296.0	408.9	430.3	442.0
80°	169.4	237.6	307.7	333.0	329.1
82.5°	112.9	181.1	220.0	220.0	214.2
85°	64.3	109.0	118.8	114.9	112.9
87.5°	27.3	40.9	37.0	29.2	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)