

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: P260582

Luminaire Tested: **24CZ-LD5-60-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260582
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-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5700.0 lumens
Efficiency: N/A
Efficacy: 129.0 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

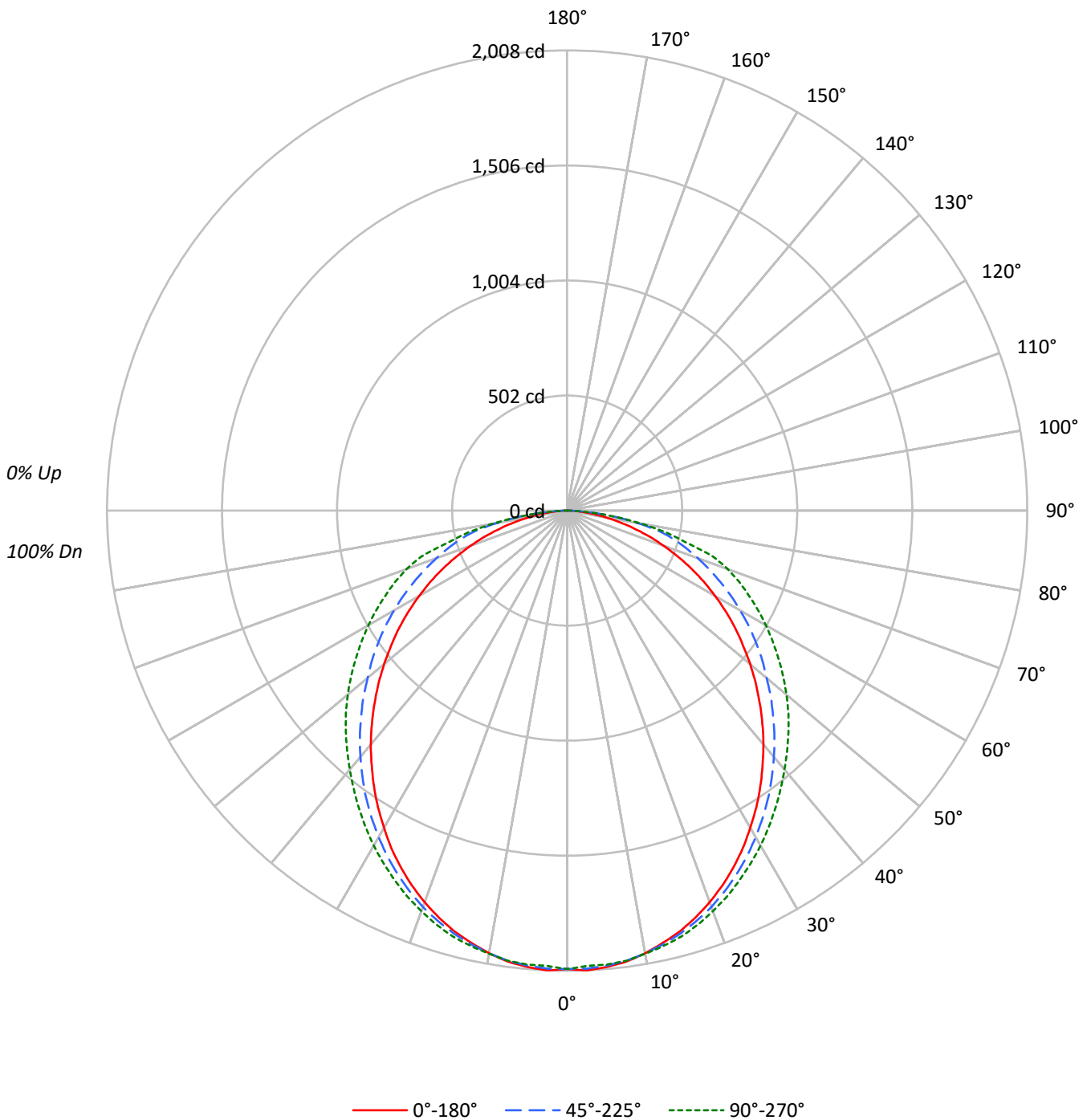
Input Watts (W): 44.179464
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2692	2692	2692
5°	2699	2691	2686
10°	2680	2680	2682
15°	2648	2661	2680
20°	2604	2635	2663
25°	2550	2599	2642
30°	2483	2556	2623
35°	2414	2513	2603
40°	2341	2465	2591
45°	2261	2418	2599
50°	2182	2377	2614
55°	2101	2362	2642
60°	2006	2348	2694
65°	1901	2349	2784
70°	1758	2388	2933
75°	1573	2496	2790
80°	1316	2390	2555
85°	994	1837	1748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	3.3
10°-20°	538.0	9.4
20°-30°	804.3	14.1
30°-40°	954.1	16.7
40°-50°	982.1	17.2
50°-60°	900.9	15.8
60°-70°	728.4	12.8
70°-80°	472.7	8.3
80°-90°	130.4	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°	1531.3	26.9
0°-40°	2485.5	43.6
0°-60°	4368.5	76.6
0°-90°	5700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2000	2000	2000	2000	2000	
5°	1998	1985	1993	1991	1989	190
15°	1901	1893	1911	1918	1924	535
25°	1717	1719	1751	1766	1780	790
35°	1470	1481	1530	1563	1585	919
45°	1188	1208	1270	1331	1366	917
55°	896	923	1007	1089	1126	800
65°	597	632	738	835	874	590
75°	302	359	480	537	537	322
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°	2000.4	2000.4	2000.4	2000.4	2000.4
2.5°	2008.2	1992.6	2000.4	1998.5	1988.7
5°	1998.5	1984.8	1992.6	1990.6	1988.7
7.5°	1984.8	1971.1	1980.9	1978.9	1980.9
10°	1961.4	1949.7	1961.4	1963.3	1963.3
12.5°	1932.1	1922.3	1938.0	1941.9	1945.8
15°	1900.9	1893.1	1910.6	1918.4	1924.3
17.5°	1861.8	1856.0	1877.5	1887.2	1895.0
20°	1818.9	1817.0	1840.4	1850.1	1859.9
22.5°	1770.1	1770.1	1797.4	1809.1	1822.8
25°	1717.4	1719.4	1750.6	1766.2	1779.9
27.5°	1660.8	1662.8	1699.9	1719.4	1735.0
30°	1598.4	1606.2	1645.2	1670.6	1688.1
32.5°	1535.9	1545.7	1588.6	1617.9	1637.4
35°	1469.6	1481.3	1530.1	1563.2	1584.7
37.5°	1401.3	1414.9	1467.6	1504.7	1530.1
40°	1333.0	1348.6	1403.2	1446.1	1475.4
42.5°	1260.7	1278.3	1338.8	1389.5	1420.8
45°	1188.5	1208.0	1270.5	1331.0	1366.1
47.5°	1116.3	1139.7	1206.1	1272.5	1309.5
50°	1042.2	1065.6	1135.8	1212.0	1249.0
52.5°	968.0	995.3	1073.4	1151.5	1188.5
55°	895.8	923.1	1007.0	1089.0	1126.1
57.5°	821.6	849.0	940.7	1026.5	1063.6
60°	745.5	776.7	872.4	960.2	1001.2
62.5°	671.4	704.5	806.0	899.7	938.7
65°	597.2	632.3	737.7	835.3	874.3
67.5°	521.1	562.1	671.4	770.9	811.9
70°	446.9	491.8	607.0	706.5	745.5
72.5°	374.7	423.5	542.5	644.0	667.5
75°	302.5	359.1	480.1	536.7	536.7
77.5°	234.2	296.6	409.8	431.3	443.0
80°	169.8	238.1	308.4	333.7	329.8
82.5°	113.2	181.5	220.5	220.5	214.7
85°	64.4	109.3	119.0	115.1	113.2
87.5°	27.3	41.0	37.1	29.3	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)