

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: P260910

Luminaire Tested: **24CZ-LD5-70-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260910
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-LD5-70-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5745.0 lumens
Efficiency: N/A
Efficacy: 108.0 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

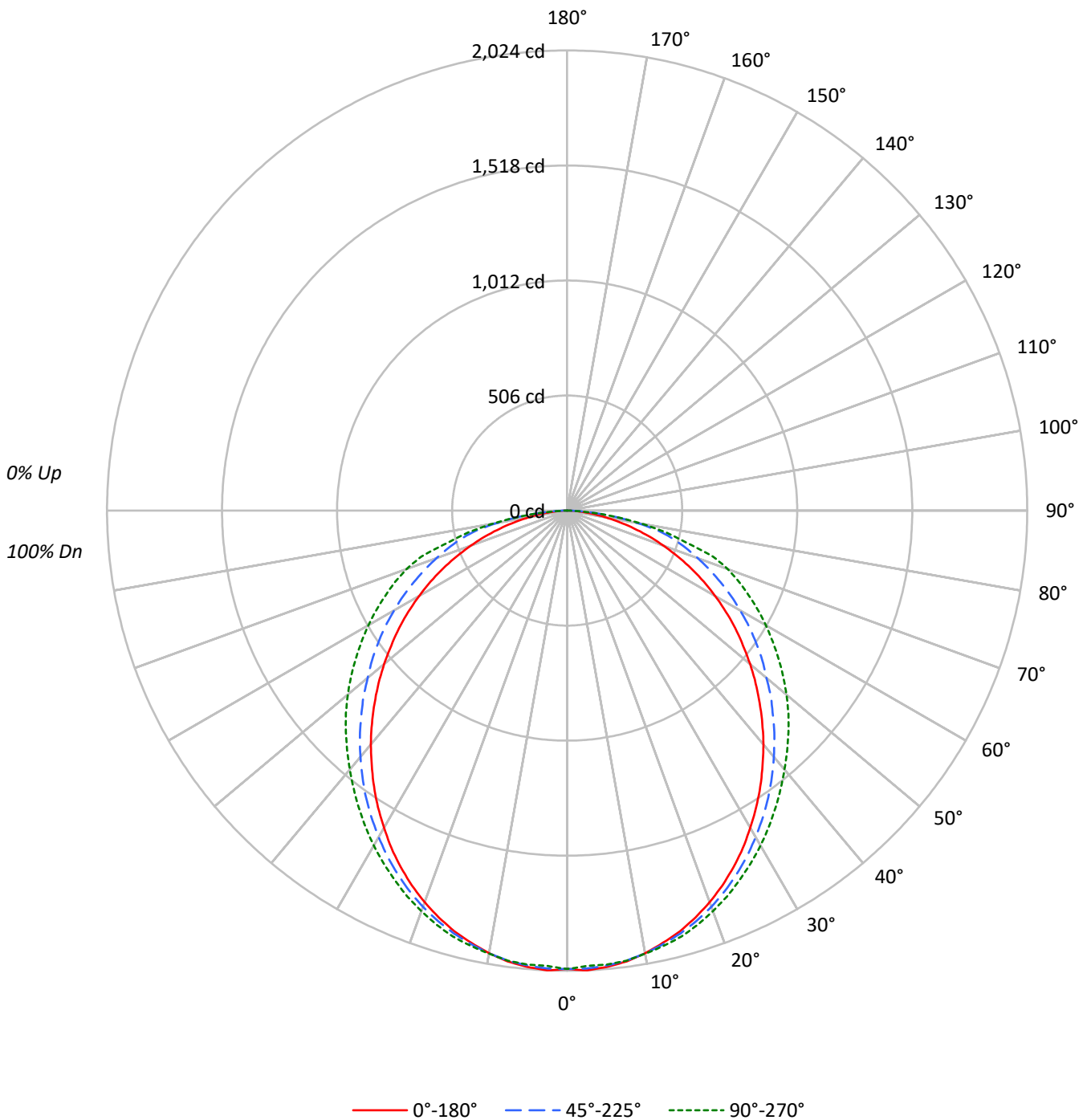
Input Watts (W): 53.196
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2713	2713	2713
5°	2720	2712	2707
10°	2701	2701	2704
15°	2669	2682	2702
20°	2625	2656	2684
25°	2570	2619	2663
30°	2503	2576	2644
35°	2433	2533	2623
40°	2360	2484	2612
45°	2279	2437	2620
50°	2199	2396	2635
55°	2118	2381	2662
60°	2022	2366	2715
65°	1916	2367	2805
70°	1772	2406	2956
75°	1585	2516	2812
80°	1326	2408	2576
85°	1002	1853	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	3.3
10°-20°	542.3	9.4
20°-30°	810.6	14.1
30°-40°	961.7	16.7
40°-50°	989.8	17.2
50°-60°	908.0	15.8
60°-70°	734.2	12.8
70°-80°	476.5	8.3
80°-90°	131.4	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°	1543.4	26.9
0°-40°	2505.1	43.6
0°-60°	4403.0	76.6
0°-90°	5745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2016	2016	2016	2016	2016	
5°	2014	2000	2008	2006	2004	191
15°	1916	1908	1926	1934	1940	540
25°	1731	1733	1764	1780	1794	797
35°	1481	1493	1542	1576	1597	926
45°	1198	1218	1280	1342	1377	924
55°	903	930	1015	1098	1135	807
65°	602	637	744	842	881	595
75°	305	362	484	541	541	324
85°	65	110	120	116	114	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2016.2	2016.2	2016.2	2016.2	2016.2
2.5°	2024.1	2008.3	2016.2	2014.2	2004.4
5°	2014.2	2000.5	2008.3	2006.4	2004.4
7.5°	2000.5	1986.7	1996.5	1994.6	1996.5
10°	1976.9	1965.1	1976.9	1978.8	1978.8
12.5°	1947.4	1937.5	1953.3	1957.2	1961.1
15°	1915.9	1908.0	1925.7	1933.6	1939.5
17.5°	1876.5	1870.6	1892.3	1902.1	1910.0
20°	1833.3	1831.3	1854.9	1864.7	1874.6
22.5°	1784.1	1784.1	1811.6	1823.4	1837.2
25°	1731.0	1732.9	1764.4	1780.2	1793.9
27.5°	1673.9	1675.9	1713.3	1732.9	1748.7
30°	1611.0	1618.9	1658.2	1683.8	1701.5
32.5°	1548.0	1557.9	1601.2	1630.7	1650.3
35°	1481.2	1493.0	1542.1	1575.6	1597.2
37.5°	1412.3	1426.1	1479.2	1516.6	1542.1
40°	1343.5	1359.2	1414.3	1457.6	1487.1
42.5°	1270.7	1288.4	1349.4	1400.5	1432.0
45°	1197.9	1217.6	1280.5	1341.5	1376.9
47.5°	1125.1	1148.7	1215.6	1282.5	1319.9
50°	1050.4	1074.0	1144.8	1221.5	1258.9
52.5°	975.6	1003.2	1081.9	1160.5	1197.9
55°	902.9	930.4	1015.0	1097.6	1135.0
57.5°	828.1	855.7	948.1	1034.7	1072.0
60°	751.4	782.9	879.3	967.8	1009.1
62.5°	676.7	710.1	812.4	906.8	946.1
65°	601.9	637.3	743.5	841.9	881.2
67.5°	525.2	566.5	676.7	777.0	818.3
70°	450.4	495.7	611.7	712.1	751.4
72.5°	377.7	426.8	546.8	649.1	672.7
75°	304.9	361.9	483.9	540.9	540.9
77.5°	236.0	299.0	413.1	434.7	446.5
80°	171.1	240.0	310.8	336.4	332.4
82.5°	114.1	182.9	222.3	222.3	216.4
85°	64.9	110.2	120.0	116.1	114.1
87.5°	27.5	41.3	37.4	29.5	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)