

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: P261390

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-S-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4810.0 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

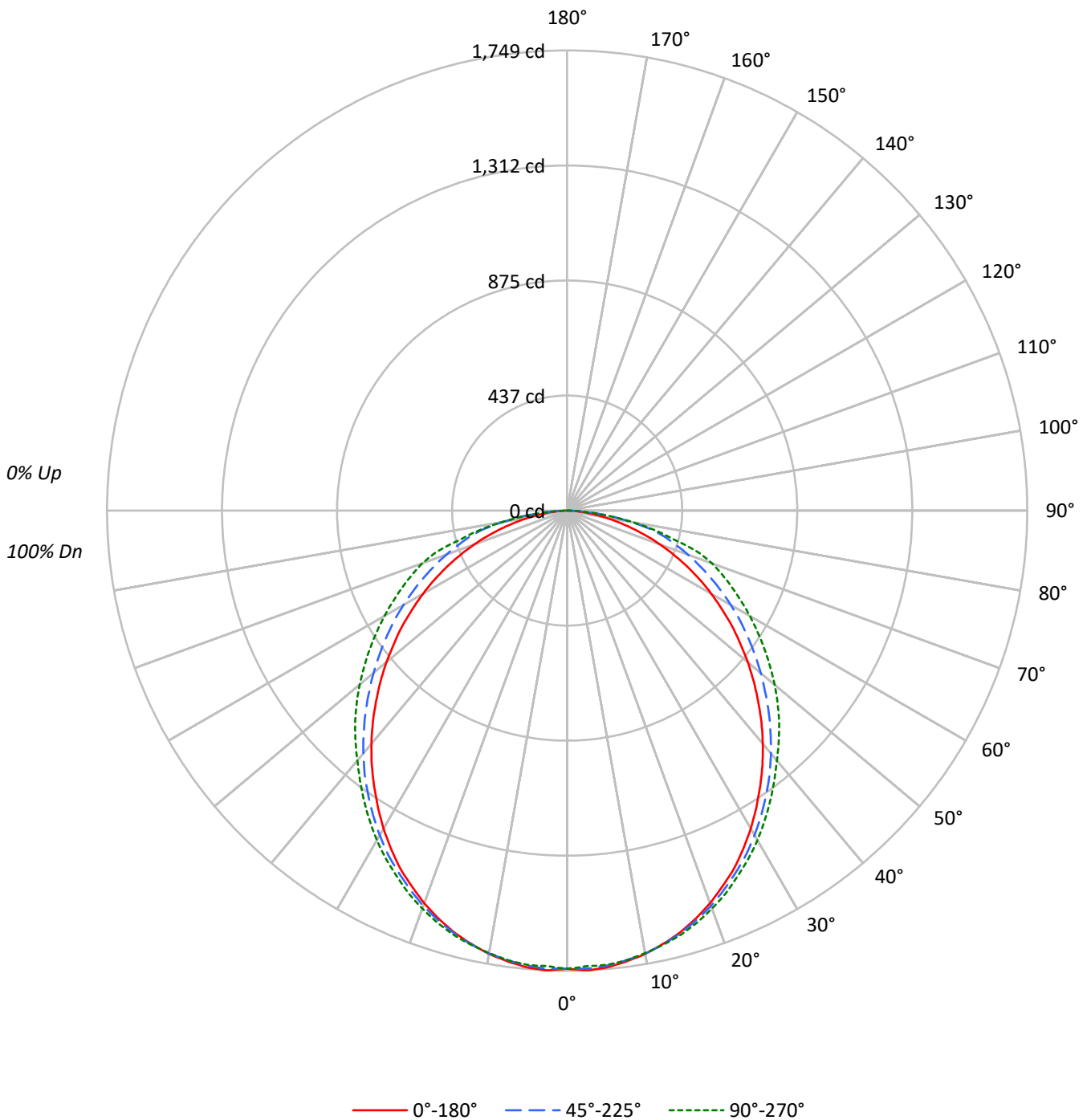
Input Watts (W): 40.92
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2343	2343	2343
5°	2354	2345	2341
10°	2338	2335	2333
15°	2312	2316	2325
20°	2273	2289	2305
25°	2229	2252	2276
30°	2168	2213	2248
35°	2100	2166	2211
40°	2032	2117	2179
45°	1955	2062	2168
50°	1876	2010	2154
55°	1795	1967	2148
60°	1701	1934	2158
65°	1600	1911	2201
70°	1473	1920	2305
75°	1306	1988	2146
80°	1091	1885	1935
85°	815	1507	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	3.4
10°-20°	468.2	9.7
20°-30°	697.8	14.5
30°-40°	821.4	17.1
40°-50°	834.7	17.4
50°-60°	750.5	15.6
60°-70°	592.9	12.3
70°-80°	376.1	7.8
80°-90°	103.8	2.2
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°	1330.6	27.7
0°-40°	2152.0	44.7
0°-60°	3737.2	77.7
0°-90°	4810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1741	1741	1741	1741	1741	
5°	1743	1728	1736	1733	1733	165
15°	1660	1652	1663	1668	1669	468
25°	1501	1500	1517	1527	1533	690
35°	1279	1287	1319	1333	1346	800
45°	1028	1042	1084	1116	1140	793
55°	765	784	839	893	916	683
65°	502	528	600	666	691	498
75°	251	294	382	416	413	267
85°	53	91	98	90	90	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1741.3	1741.3	1741.3	1741.3	1741.3
2.5°	1749.3	1736.5	1742.9	1739.7	1733.3
5°	1742.9	1728.5	1736.5	1733.3	1733.3
7.5°	1728.5	1717.3	1723.7	1722.1	1723.7
10°	1710.9	1699.7	1709.3	1709.3	1707.7
12.5°	1686.9	1677.3	1688.5	1688.5	1690.1
15°	1659.7	1651.7	1662.9	1667.7	1669.3
17.5°	1626.1	1618.1	1632.5	1637.3	1642.1
20°	1587.7	1584.5	1598.9	1603.7	1610.1
22.5°	1544.5	1544.5	1558.9	1565.3	1574.9
25°	1501.2	1499.6	1517.2	1526.8	1533.2
27.5°	1450.0	1451.6	1474.0	1483.6	1491.6
30°	1395.6	1398.8	1424.4	1435.6	1446.8
32.5°	1338.0	1344.4	1373.2	1386.0	1397.2
35°	1278.8	1286.8	1318.8	1333.2	1346.0
37.5°	1219.6	1230.8	1264.4	1278.8	1293.2
40°	1157.1	1166.7	1205.2	1222.8	1240.4
42.5°	1093.1	1105.9	1144.3	1169.9	1190.7
45°	1027.5	1041.9	1083.5	1115.5	1139.5
47.5°	961.9	981.1	1021.1	1064.3	1085.1
50°	896.3	915.5	960.3	1008.3	1029.1
52.5°	829.0	848.2	899.5	949.1	971.5
55°	765.0	784.2	838.6	893.1	915.5
57.5°	697.8	718.6	779.4	835.4	857.9
60°	632.2	653.0	718.6	777.8	801.8
62.5°	568.2	590.6	659.4	721.8	745.8
65°	502.5	528.2	600.2	665.8	691.4
67.5°	438.5	467.3	542.6	611.4	638.6
70°	374.5	408.1	488.1	558.6	585.8
72.5°	312.1	348.9	433.7	504.1	518.6
75°	251.3	294.5	382.5	416.1	412.9
77.5°	193.7	241.7	324.9	331.3	340.9
80°	140.8	193.7	243.3	256.1	249.7
82.5°	92.8	145.6	174.5	168.0	166.4
85°	52.8	91.2	97.6	89.6	89.6
87.5°	22.4	36.8	32.0	24.0	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)