

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: P260748

Luminaire Tested: **24CZ-LD5-55-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260748
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-LD5-55-UNV-L82765-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: 5240.1 lumens
Efficiency: N/A
Efficacy: 131.6 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

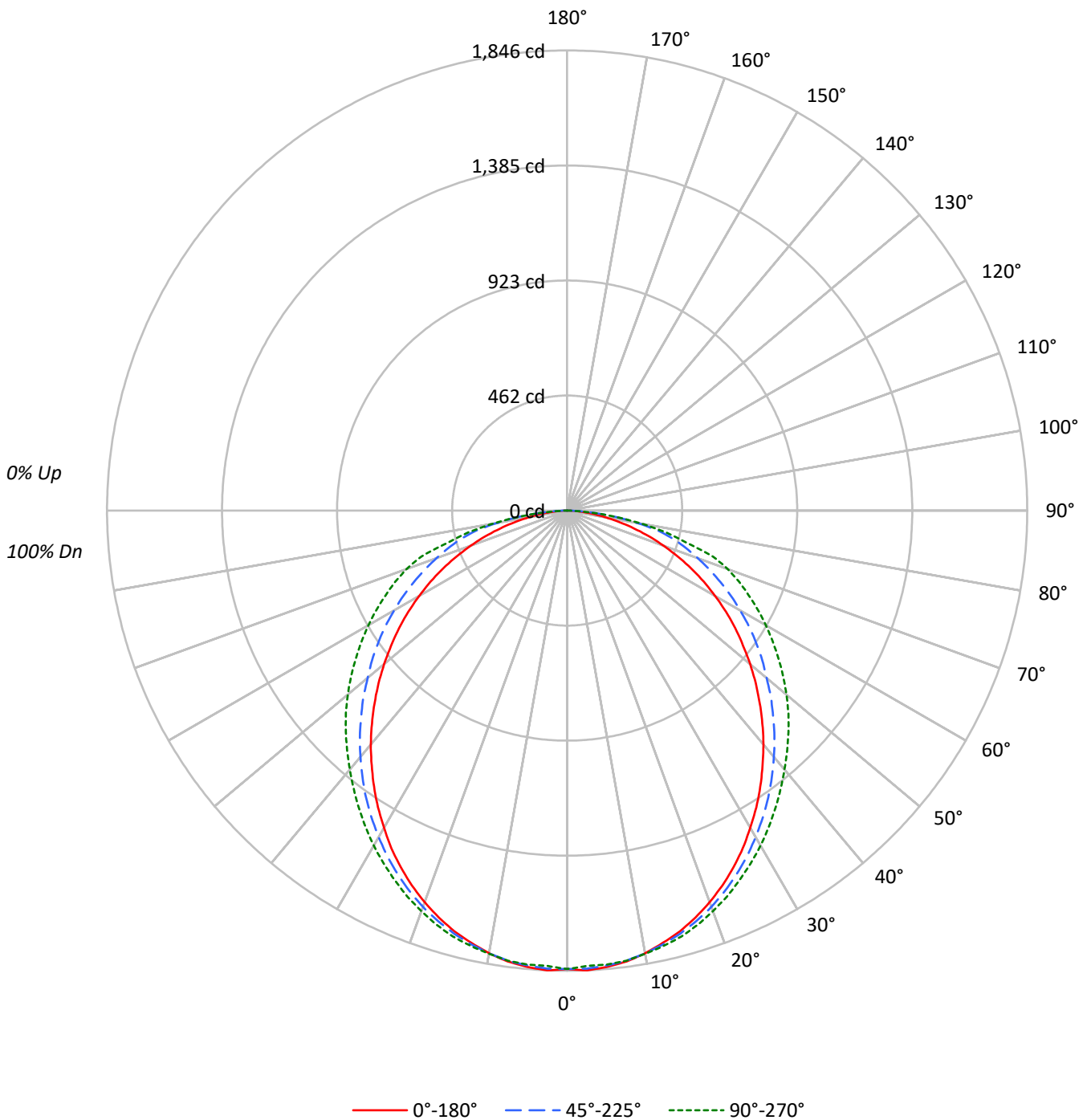
Input Watts (W): 39.804
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2474	2474	2474
5°	2481	2474	2469
10°	2463	2463	2466
15°	2434	2447	2464
20°	2394	2423	2448
25°	2344	2389	2429
30°	2283	2350	2411
35°	2219	2310	2393
40°	2152	2266	2382
45°	2079	2222	2390
50°	2006	2186	2403
55°	1932	2172	2428
60°	1844	2158	2477
65°	1748	2159	2559
70°	1616	2195	2696
75°	1446	2295	2565
80°	1210	2197	2349
85°	914	1689	1607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	3.3
10°-20°	494.6	9.4
20°-30°	739.4	14.1
30°-40°	877.1	16.7
40°-50°	902.8	17.2
50°-60°	828.2	15.8
60°-70°	669.7	12.8
70°-80°	434.6	8.3
80°-90°	119.8	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°	1407.8	26.9
0°-40°	2284.9	43.6
0°-60°	4015.9	76.6
0°-90°	5240.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5240.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1839	1839	1839	1839	1839	
5°	1837	1825	1832	1830	1828	174
15°	1748	1740	1756	1764	1769	492
25°	1579	1581	1609	1624	1636	727
35°	1351	1362	1407	1437	1457	845
45°	1093	1111	1168	1224	1256	843
55°	824	849	926	1001	1035	736
65°	549	581	678	768	804	543
75°	278	330	441	493	493	296
85°	59	100	109	106	104	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1839.0	1839.0	1839.0	1839.0	1839.0
2.5°	1846.1	1831.8	1839.0	1837.2	1828.2
5°	1837.2	1824.6	1831.8	1830.0	1828.2
7.5°	1824.6	1812.1	1821.0	1819.2	1821.0
10°	1803.1	1792.3	1803.1	1804.9	1804.9
12.5°	1776.2	1767.2	1781.6	1785.1	1788.7
15°	1747.5	1740.3	1756.4	1763.6	1769.0
17.5°	1711.6	1706.2	1725.9	1734.9	1742.1
20°	1672.1	1670.3	1691.9	1700.8	1709.8
22.5°	1627.3	1627.3	1652.4	1663.1	1675.7
25°	1578.8	1580.6	1609.3	1623.7	1636.2
27.5°	1526.8	1528.6	1562.7	1580.6	1595.0
30°	1469.4	1476.6	1512.4	1535.8	1551.9
32.5°	1412.0	1420.9	1460.4	1487.3	1505.3
35°	1351.0	1361.7	1406.6	1437.1	1456.8
37.5°	1288.2	1300.7	1349.2	1383.3	1406.6
40°	1225.4	1239.7	1290.0	1329.4	1356.4
42.5°	1159.0	1175.1	1230.8	1277.4	1306.1
45°	1092.6	1110.6	1168.0	1223.6	1255.9
47.5°	1026.2	1047.8	1108.8	1169.8	1203.9
50°	958.1	979.6	1044.2	1114.1	1148.2
52.5°	889.9	915.0	986.8	1058.5	1092.6
55°	823.5	848.6	925.8	1001.1	1035.2
57.5°	755.3	780.4	864.8	943.7	977.8
60°	685.4	714.1	802.0	882.7	920.4
62.5°	617.2	647.7	741.0	827.1	863.0
65°	549.0	581.3	678.2	767.9	803.8
67.5°	479.0	516.7	617.2	708.7	746.4
70°	410.9	452.1	558.0	649.5	685.4
72.5°	344.5	389.3	498.8	592.1	613.6
75°	278.1	330.1	441.4	493.4	493.4
77.5°	215.3	272.7	376.8	396.5	407.3
80°	156.1	218.9	283.5	306.8	303.2
82.5°	104.1	166.9	202.7	202.7	197.4
85°	59.2	100.5	109.4	105.9	104.1
87.5°	25.1	37.7	34.1	26.9	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)