

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: P260892

Luminaire Tested: **24CZ-LD5-60-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260892
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-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: 4915.0 lumens
Efficiency: N/A
Efficacy: 112.0 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

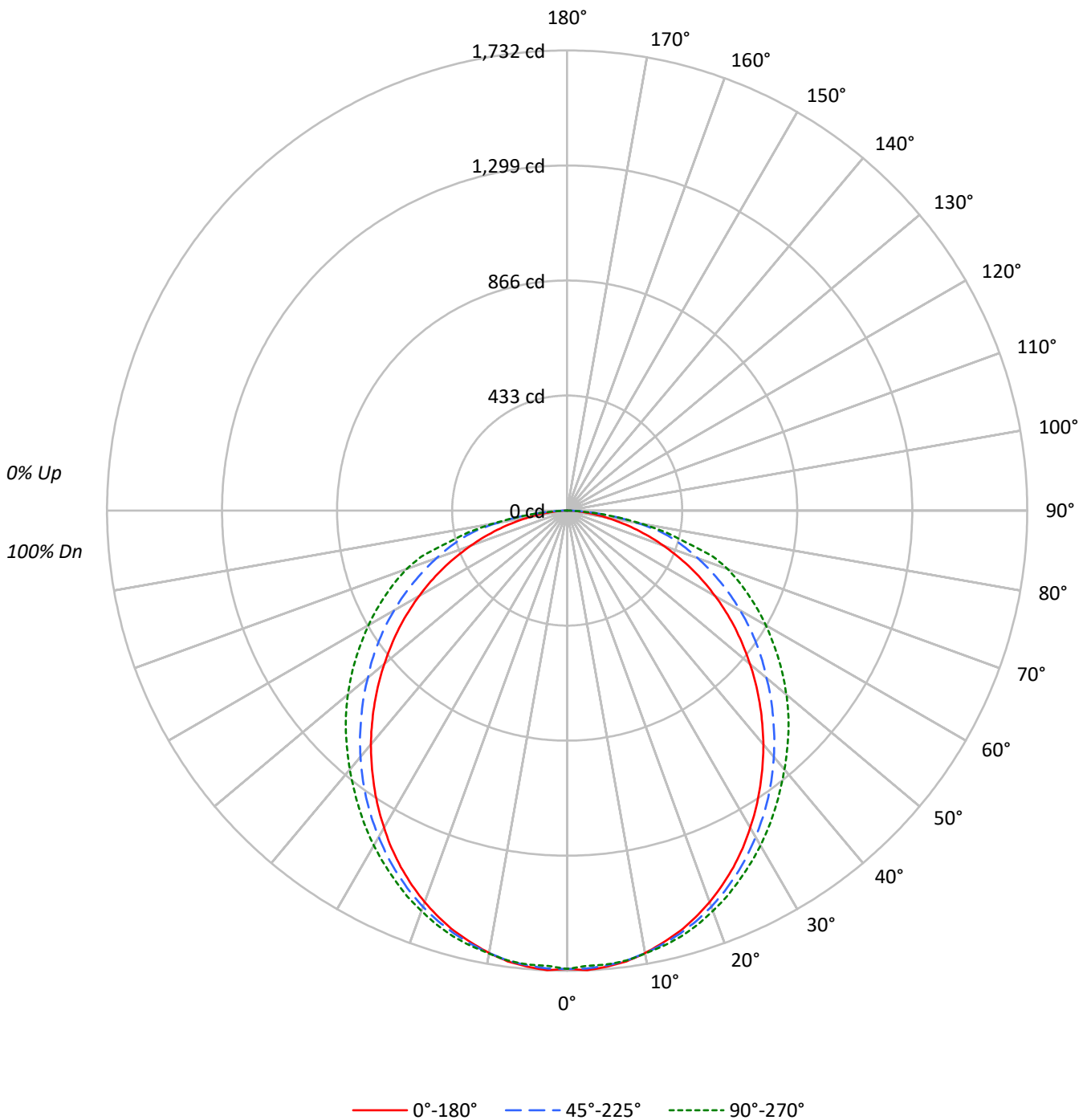
Input Watts (W): 43.896
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2321	2321	2321
5°	2327	2321	2316
10°	2311	2311	2313
15°	2283	2295	2311
20°	2246	2272	2296
25°	2199	2241	2278
30°	2141	2204	2262
35°	2081	2167	2245
40°	2019	2125	2235
45°	1950	2085	2242
50°	1881	2050	2254
55°	1812	2037	2278
60°	1730	2024	2323
65°	1639	2025	2400
70°	1516	2059	2529
75°	1356	2152	2406
80°	1134	2060	2204
85°	857	1585	1507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	3.3
10°-20°	463.9	9.4
20°-30°	693.5	14.1
30°-40°	822.7	16.7
40°-50°	846.8	17.2
50°-60°	776.8	15.8
60°-70°	628.1	12.8
70°-80°	407.6	8.3
80°-90°	112.4	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°	1320.4	26.9
0°-40°	2143.2	43.6
0°-60°	3766.8	76.6
0°-90°	4915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1725	1725	1725	1725	1725	
5°	1723	1711	1718	1716	1715	164
15°	1639	1632	1648	1654	1659	462
25°	1481	1483	1510	1523	1535	682
35°	1267	1277	1319	1348	1366	792
45°	1025	1042	1096	1148	1178	791
55°	772	796	868	939	971	690
65°	515	545	636	720	754	509
75°	261	310	414	463	463	277
85°	56	94	103	99	98	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1724.9	1724.9	1724.9	1724.9	1724.9
2.5°	1731.6	1718.2	1724.9	1723.2	1714.8
5°	1723.2	1711.4	1718.2	1716.5	1714.8
7.5°	1711.4	1699.7	1708.1	1706.4	1708.1
10°	1691.3	1681.2	1691.3	1692.9	1692.9
12.5°	1666.0	1657.6	1671.1	1674.4	1677.8
15°	1639.1	1632.4	1647.5	1654.2	1659.3
17.5°	1605.4	1600.4	1618.9	1627.3	1634.0
20°	1568.4	1566.7	1586.9	1595.3	1603.7
22.5°	1526.3	1526.3	1549.9	1560.0	1571.8
25°	1480.9	1482.6	1509.5	1523.0	1534.7
27.5°	1432.1	1433.8	1465.8	1482.6	1496.0
30°	1378.2	1385.0	1418.6	1440.5	1455.7
32.5°	1324.4	1332.8	1369.8	1395.1	1411.9
35°	1267.2	1277.3	1319.3	1348.0	1366.5
37.5°	1208.3	1220.1	1265.5	1297.5	1319.3
40°	1149.4	1162.8	1210.0	1247.0	1272.2
42.5°	1087.1	1102.3	1154.4	1198.2	1225.1
45°	1024.8	1041.7	1095.5	1147.7	1178.0
47.5°	962.6	982.8	1040.0	1097.2	1129.2
50°	898.6	918.8	979.4	1045.0	1077.0
52.5°	834.7	858.2	925.6	992.9	1024.8
55°	772.4	796.0	868.3	939.0	971.0
57.5°	708.5	732.0	811.1	885.2	917.1
60°	642.8	669.8	752.2	828.0	863.3
62.5°	578.9	607.5	695.0	775.8	809.4
65°	514.9	545.2	636.1	720.3	753.9
67.5°	449.3	484.7	578.9	664.7	700.1
70°	385.4	424.1	523.4	609.2	642.8
72.5°	323.1	365.2	467.8	555.3	575.5
75°	260.8	309.6	414.0	462.8	462.8
77.5°	201.9	255.8	353.4	371.9	382.0
80°	146.4	205.3	265.9	287.8	284.4
82.5°	97.6	156.5	190.2	190.2	185.1
85°	55.5	94.2	102.7	99.3	97.6
87.5°	23.6	35.3	32.0	25.2	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)