

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: P260738

Luminaire Tested: **24CZ-LD5-50-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260738
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-LD5-50-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4612.0 lumens
Efficiency: N/A
Efficacy: 129.1 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

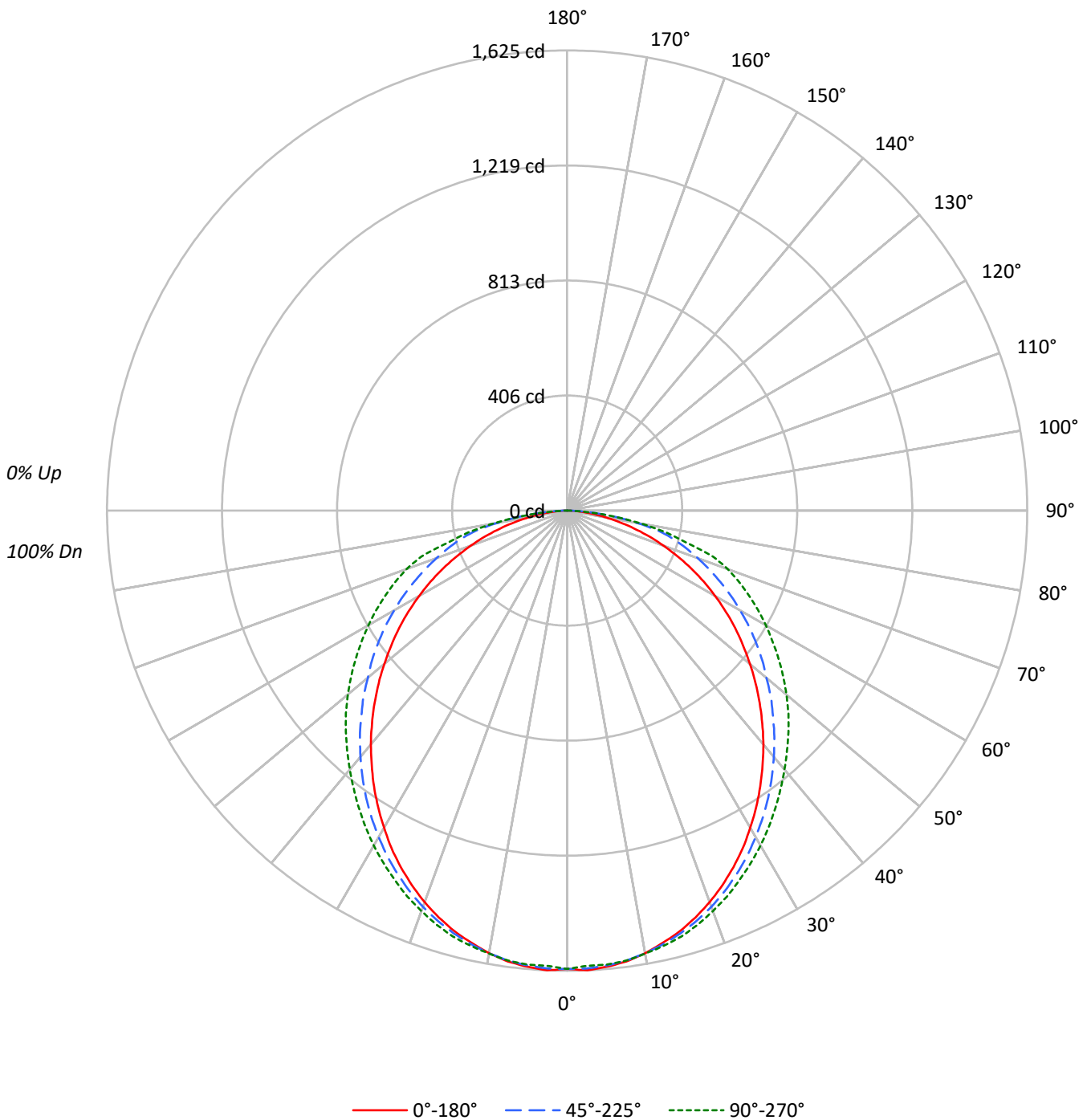
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2178	2178	2178
5°	2184	2178	2173
10°	2168	2168	2170
15°	2142	2153	2169
20°	2107	2132	2155
25°	2063	2103	2138
30°	2009	2068	2122
35°	1953	2033	2106
40°	1894	1994	2097
45°	1830	1956	2103
50°	1765	1924	2115
55°	1700	1911	2137
60°	1623	1900	2180
65°	1538	1900	2252
70°	1423	1932	2373
75°	1273	2020	2258
80°	1065	1933	2068
85°	804	1487	1414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.3
10°-20°	435.3	9.4
20°-30°	650.8	14.1
30°-40°	772.0	16.7
40°-50°	794.6	17.2
50°-60°	728.9	15.8
60°-70°	589.4	12.8
70°-80°	382.5	8.3
80°-90°	105.5	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°	1239.0	26.9
0°-40°	2011.1	43.6
0°-60°	3534.6	76.6
0°-90°	4612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1619	1619	1619	1619	1619	
5°	1617	1606	1612	1611	1609	153
15°	1538	1532	1546	1552	1557	433
25°	1390	1391	1416	1429	1440	640
35°	1189	1198	1238	1265	1282	744
45°	962	978	1028	1077	1105	742
55°	725	747	815	881	911	647
65°	483	512	597	676	707	478
75°	245	291	388	434	434	260
85°	52	88	96	93	92	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1618.6	1618.6	1618.6	1618.6	1618.6
2.5°	1624.9	1612.3	1618.6	1617.0	1609.1
5°	1617.0	1605.9	1612.3	1610.7	1609.1
7.5°	1605.9	1594.9	1602.8	1601.2	1602.8
10°	1587.0	1577.5	1587.0	1588.6	1588.6
12.5°	1563.3	1555.4	1568.0	1571.2	1574.4
15°	1538.0	1531.7	1545.9	1552.3	1557.0
17.5°	1506.5	1501.7	1519.1	1527.0	1533.3
20°	1471.7	1470.1	1489.1	1497.0	1504.9
22.5°	1432.2	1432.2	1454.3	1463.8	1474.9
25°	1389.6	1391.2	1416.4	1429.1	1440.1
27.5°	1343.8	1345.4	1375.4	1391.2	1403.8
30°	1293.3	1299.6	1331.2	1351.7	1365.9
32.5°	1242.7	1250.6	1285.4	1309.1	1324.9
35°	1189.1	1198.5	1238.0	1264.9	1282.2
37.5°	1133.8	1144.8	1187.5	1217.5	1238.0
40°	1078.5	1091.2	1135.4	1170.1	1193.8
42.5°	1020.1	1034.3	1083.3	1124.3	1149.6
45°	961.7	977.5	1028.0	1076.9	1105.4
47.5°	903.2	922.2	975.9	1029.6	1059.6
50°	843.2	862.2	919.0	980.6	1010.6
52.5°	783.2	805.3	868.5	931.7	961.7
55°	724.8	746.9	814.8	881.1	911.1
57.5°	664.8	686.9	761.1	830.6	860.6
60°	603.2	628.5	705.9	776.9	810.1
62.5°	543.2	570.1	652.2	728.0	759.5
65°	483.2	511.6	596.9	675.9	707.4
67.5°	421.6	454.8	543.2	623.7	656.9
70°	361.6	397.9	491.1	571.6	603.2
72.5°	303.2	342.7	439.0	521.1	540.1
75°	244.8	290.6	388.5	434.3	434.3
77.5°	189.5	240.0	331.6	349.0	358.5
80°	137.4	192.6	249.5	270.0	266.9
82.5°	91.6	146.9	178.4	178.4	173.7
85°	52.1	88.4	96.3	93.2	91.6
87.5°	22.1	33.2	30.0	23.7	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)