

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: P261272

Luminaire Tested: **24CZ-LD5-35-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261272
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-LD5-35-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3369.0 lumens
Efficiency: N/A
Efficacy: 135.7 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

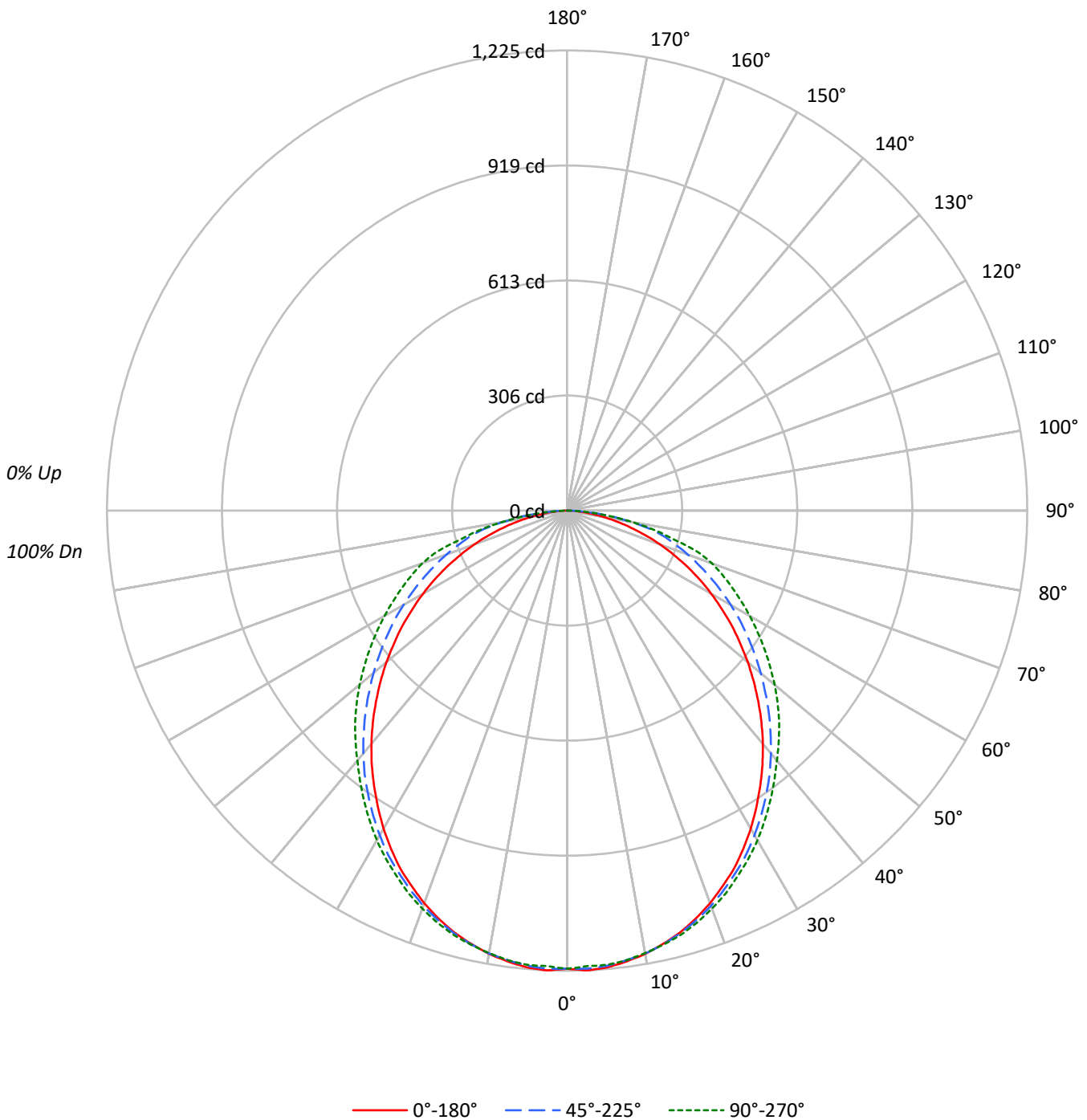
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1641	1641	1641
5°	1649	1643	1640
10°	1637	1636	1634
15°	1619	1622	1629
20°	1592	1604	1615
25°	1561	1578	1594
30°	1519	1550	1574
35°	1471	1517	1549
40°	1424	1483	1526
45°	1369	1444	1519
50°	1314	1408	1509
55°	1257	1378	1504
60°	1192	1354	1511
65°	1121	1338	1542
70°	1032	1345	1614
75°	915	1393	1503
80°	764	1320	1355
85°	571	1056	969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	3.4
10°-20°	327.9	9.7
20°-30°	488.7	14.5
30°-40°	575.3	17.1
40°-50°	584.6	17.4
50°-60°	525.6	15.6
60°-70°	415.3	12.3
70°-80°	263.5	7.8
80°-90°	72.7	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°	932.0	27.7
0°-40°	1507.3	44.7
0°-60°	2617.6	77.7
0°-90°	3369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1221	1211	1216	1214	1214	116
15°	1162	1157	1165	1168	1169	327
25°	1052	1050	1063	1069	1074	483
35°	896	901	924	934	943	560
45°	720	730	759	781	798	555
55°	536	549	587	626	641	479
65°	352	370	420	466	484	349
75°	176	206	268	292	289	187
85°	37	64	68	63	63	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.6	1219.6	1219.6	1219.6	1219.6
2.5°	1225.2	1216.3	1220.8	1218.5	1214.0
5°	1220.8	1210.7	1216.3	1214.0	1214.0
7.5°	1210.7	1202.8	1207.3	1206.2	1207.3
10°	1198.3	1190.5	1197.2	1197.2	1196.1
12.5°	1181.5	1174.8	1182.6	1182.6	1183.8
15°	1162.5	1156.9	1164.7	1168.1	1169.2
17.5°	1138.9	1133.3	1143.4	1146.8	1150.1
20°	1112.0	1109.8	1119.9	1123.2	1127.7
22.5°	1081.8	1081.8	1091.8	1096.3	1103.1
25°	1051.5	1050.4	1062.7	1069.4	1073.9
27.5°	1015.6	1016.7	1032.4	1039.2	1044.8
30°	977.5	979.7	997.7	1005.5	1013.4
32.5°	937.1	941.6	961.8	970.8	978.6
35°	895.7	901.3	923.7	933.8	942.8
37.5°	854.2	862.0	885.6	895.7	905.8
40°	810.5	817.2	844.1	856.4	868.8
42.5°	765.6	774.6	801.5	819.4	834.0
45°	719.7	729.8	758.9	781.3	798.1
47.5°	673.7	687.2	715.2	745.5	760.0
50°	627.8	641.2	672.6	706.2	720.8
52.5°	580.7	594.1	630.0	664.7	680.4
55°	535.8	549.3	587.4	625.5	641.2
57.5°	488.8	503.3	545.9	585.2	600.9
60°	442.8	457.4	503.3	544.8	561.6
62.5°	398.0	413.6	461.8	505.6	522.4
65°	352.0	369.9	420.4	466.3	484.3
67.5°	307.2	327.3	380.0	428.2	447.3
70°	262.3	285.9	341.9	391.2	410.3
72.5°	218.6	244.4	303.8	353.1	363.2
75°	176.0	206.3	267.9	291.5	289.2
77.5°	135.6	169.3	227.6	232.0	238.8
80°	98.6	135.6	170.4	179.4	174.9
82.5°	65.0	102.0	122.2	117.7	116.6
85°	37.0	63.9	68.4	62.8	62.8
87.5°	15.7	25.8	22.4	16.8	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)