

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: P260716

Luminaire Tested: **24CZ-LD5-35-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260716
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-LD5-35-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3623.0 lumens
Efficiency: N/A
Efficacy: 146.5 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

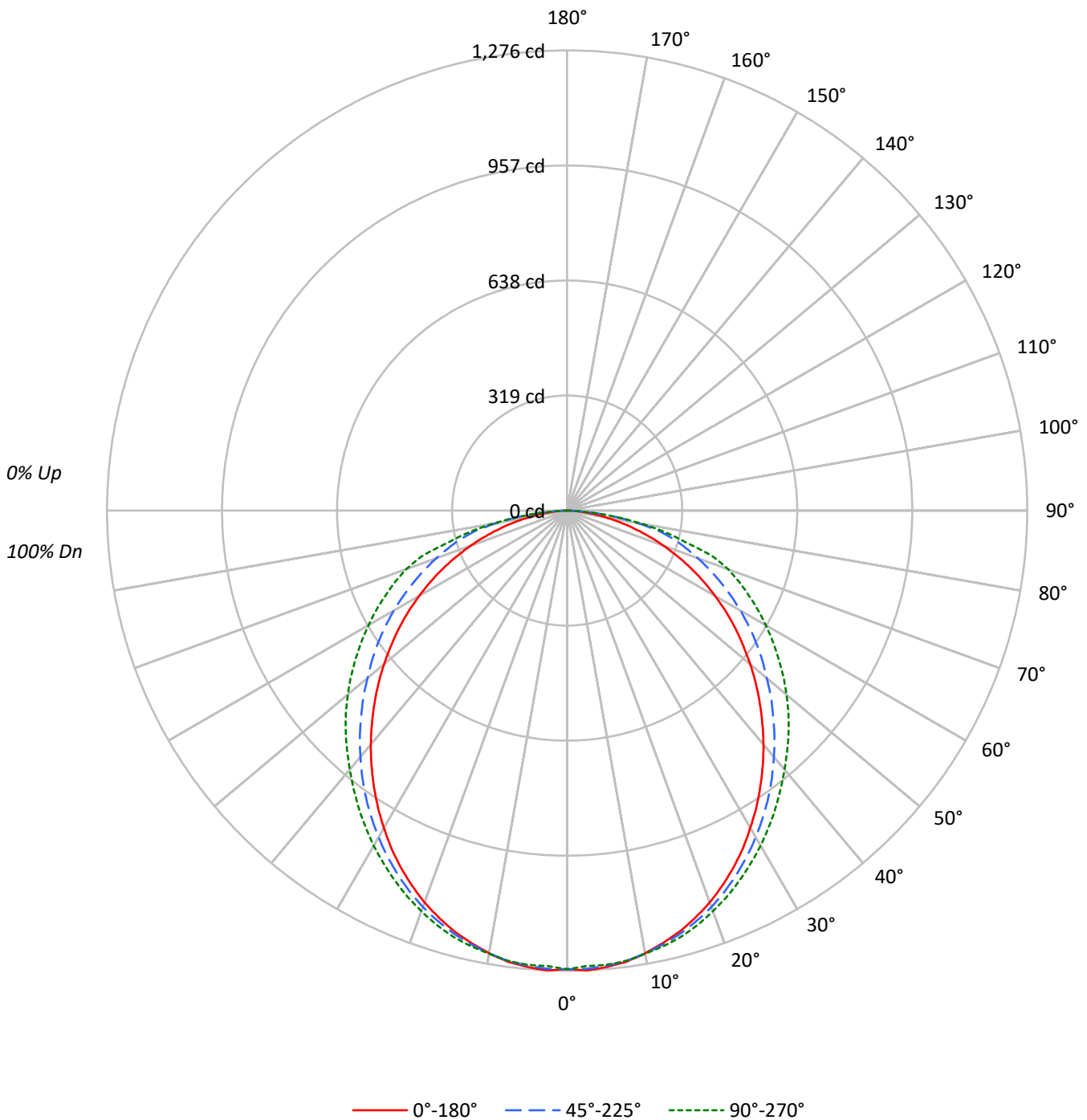
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1711	1711	1711
5°	1716	1711	1707
10°	1703	1703	1705
15°	1683	1692	1704
20°	1655	1675	1693
25°	1621	1652	1680
30°	1578	1625	1667
35°	1534	1597	1655
40°	1488	1567	1647
45°	1437	1537	1652
50°	1387	1511	1662
55°	1336	1502	1679
60°	1275	1492	1713
65°	1209	1493	1769
70°	1118	1518	1864
75°	1000	1587	1773
80°	836	1519	1624
85°	631	1169	1110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	3.3
10°-20°	342.0	9.4
20°-30°	511.2	14.1
30°-40°	606.5	16.7
40°-50°	624.2	17.2
50°-60°	572.6	15.8
60°-70°	463.0	12.8
70°-80°	300.5	8.3
80°-90°	82.9	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°	973.3	26.9
0°-40°	1579.8	43.6
0°-60°	2776.7	76.6
0°-90°	3623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1270	1262	1266	1265	1264	121
15°	1208	1203	1214	1219	1223	340
25°	1092	1093	1113	1123	1131	502
35°	934	942	972	994	1007	584
45°	755	768	808	846	868	583
55°	569	587	640	692	716	509
65°	380	402	469	531	556	375
75°	192	228	305	341	341	204
85°	41	70	76	73	72	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1271.5	1271.5	1271.5	1271.5	1271.5
2.5°	1276.4	1266.5	1271.5	1270.2	1264.0
5°	1270.2	1261.6	1266.5	1265.3	1264.0
7.5°	1261.6	1252.9	1259.1	1257.8	1259.1
10°	1246.7	1239.2	1246.7	1247.9	1247.9
12.5°	1228.1	1221.9	1231.8	1234.3	1236.8
15°	1208.2	1203.3	1214.4	1219.4	1223.1
17.5°	1183.4	1179.7	1193.3	1199.5	1204.5
20°	1156.1	1154.9	1169.8	1176.0	1182.2
22.5°	1125.1	1125.1	1142.5	1149.9	1158.6
25°	1091.6	1092.9	1112.7	1122.6	1131.3
27.5°	1055.6	1056.9	1080.5	1092.9	1102.8
30°	1015.9	1020.9	1045.7	1061.8	1073.0
32.5°	976.3	982.5	1009.7	1028.4	1040.8
35°	934.1	941.5	972.5	993.6	1007.3
37.5°	890.7	899.3	932.8	956.4	972.5
40°	847.2	857.2	891.9	919.2	937.8
42.5°	801.3	812.5	851.0	883.2	903.1
45°	755.4	767.9	807.5	846.0	868.3
47.5°	709.6	724.4	766.6	808.8	832.4
50°	662.4	677.3	722.0	770.3	793.9
52.5°	615.3	632.6	682.3	731.9	755.4
55°	569.4	586.7	640.1	692.2	715.8
57.5°	522.2	539.6	597.9	652.5	676.1
60°	473.9	493.7	554.5	610.3	636.4
62.5°	426.7	447.8	512.3	571.9	596.7
65°	379.6	401.9	468.9	530.9	555.7
67.5°	331.2	357.3	426.7	490.0	516.0
70°	284.1	312.6	385.8	449.1	473.9
72.5°	238.2	269.2	344.9	409.4	424.2
75°	192.3	228.2	305.2	341.1	341.1
77.5°	148.9	188.6	260.5	274.1	281.6
80°	107.9	151.3	196.0	212.1	209.6
82.5°	71.9	115.4	140.2	140.2	136.5
85°	40.9	69.5	75.7	73.2	71.9
87.5°	17.4	26.0	23.6	18.6	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)