

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: P261274

Luminaire Tested: **24CZ-LD5-35-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261274  
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-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3407.0 lumens  
Efficiency: N/A  
Efficacy: 134.7 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

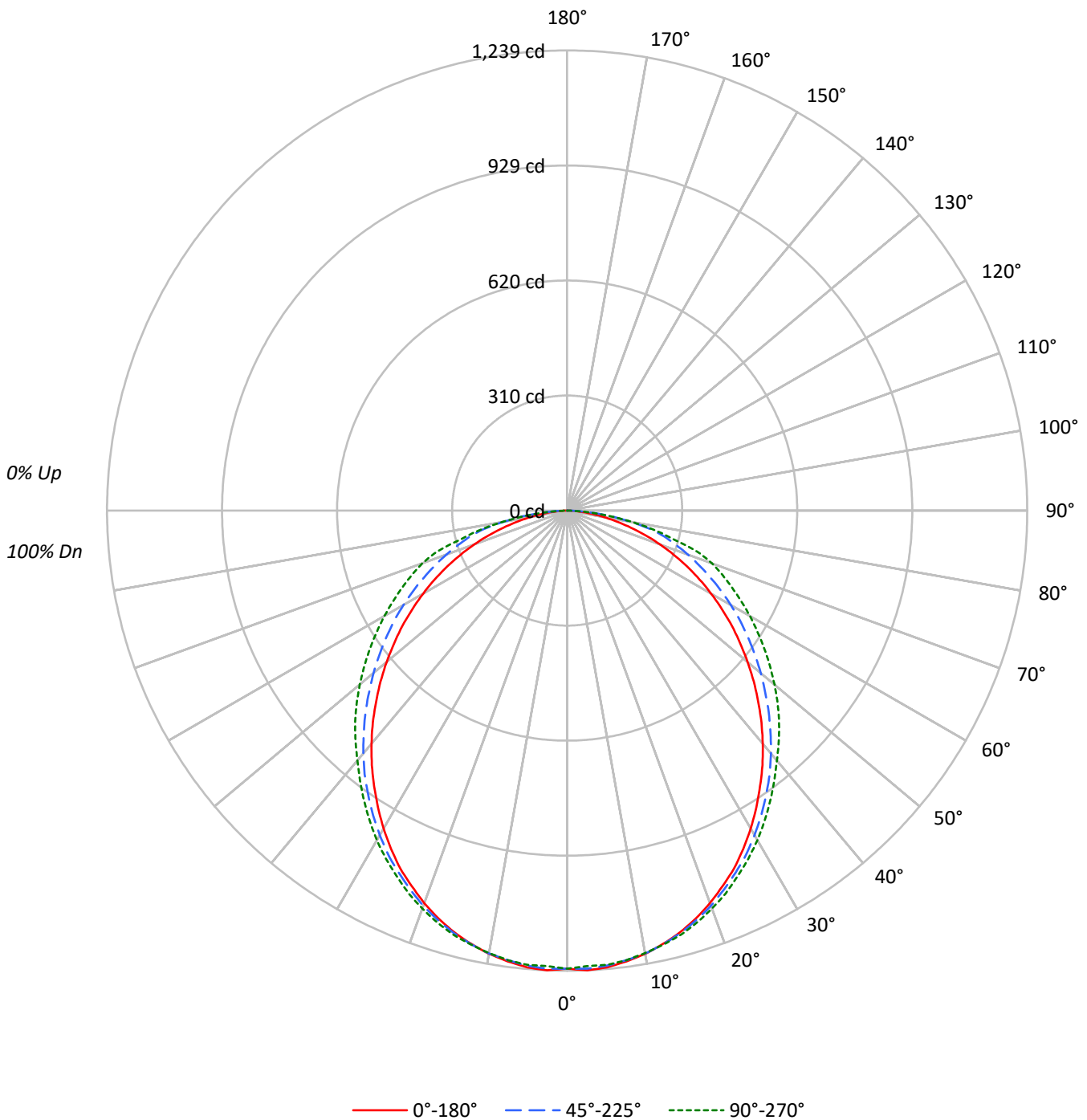
Input Watts (W): 25.296  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1660	1660	1660
5°	1667	1661	1658
10°	1656	1654	1653
15°	1638	1641	1647
20°	1610	1622	1633
25°	1579	1595	1612
30°	1536	1567	1592
35°	1488	1534	1566
40°	1440	1499	1543
45°	1385	1460	1536
50°	1329	1424	1526
55°	1271	1393	1521
60°	1205	1370	1528
65°	1133	1353	1559
70°	1044	1360	1632
75°	925	1408	1521
80°	773	1335	1370
85°	577	1068	980



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.6	3.4
10°-20°	331.6	9.7
20°-30°	494.2	14.5
30°-40°	581.8	17.1
40°-50°	591.2	17.4
50°-60°	531.6	15.6
60°-70°	419.9	12.3
70°-80°	266.4	7.8
80°-90°	73.5	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°	942.5	27.7
0°-40°	1524.3	44.7
0°-60°	2647.1	77.7
0°-90°	3407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3407.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1234	1224	1230	1228	1228	117
15°	1176	1170	1178	1181	1182	331
25°	1063	1062	1075	1082	1086	489
35°	906	911	934	944	953	567
45°	728	738	768	790	807	562
55°	542	556	594	633	648	484
65°	356	374	425	472	490	353
75°	178	209	271	295	292	189
85°	37	65	69	64	64	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1239.1	1230.0	1234.5	1232.3	1227.7
5°	1234.5	1224.3	1230.0	1227.7	1227.7
7.5°	1224.3	1216.4	1220.9	1219.8	1220.9
10°	1211.9	1203.9	1210.7	1210.7	1209.6
12.5°	1194.9	1188.1	1196.0	1196.0	1197.1
15°	1175.6	1169.9	1177.8	1181.2	1182.4
17.5°	1151.8	1146.1	1156.3	1159.7	1163.1
20°	1124.6	1122.3	1132.5	1135.9	1140.4
22.5°	1094.0	1094.0	1104.2	1108.7	1115.5
25°	1063.4	1062.2	1074.7	1081.5	1086.0
27.5°	1027.1	1028.2	1044.1	1050.9	1056.5
30°	988.5	990.8	1008.9	1016.9	1024.8
32.5°	947.7	952.3	972.7	981.7	989.7
35°	905.8	911.4	934.1	944.3	953.4
37.5°	863.8	871.8	895.6	905.8	916.0
40°	819.6	826.4	853.6	866.1	878.6
42.5°	774.3	783.3	810.6	828.7	843.4
45°	727.8	738.0	767.5	790.1	807.1
47.5°	681.3	694.9	723.3	753.9	768.6
50°	634.8	648.4	680.2	714.2	728.9
52.5°	587.2	600.8	637.1	672.2	688.1
55°	541.9	555.5	594.0	632.6	648.4
57.5°	494.3	509.0	552.1	591.8	607.6
60°	447.8	462.5	509.0	550.9	568.0
62.5°	402.4	418.3	467.1	511.3	528.3
65°	356.0	374.1	425.1	471.6	489.7
67.5°	310.6	331.0	384.3	433.0	452.3
70°	265.3	289.1	345.8	395.6	414.9
72.5°	221.1	247.1	307.2	357.1	367.3
75°	178.0	208.6	270.9	294.7	292.5
77.5°	137.2	171.2	230.1	234.7	241.5
80°	99.8	137.2	172.3	181.4	176.8
82.5°	65.8	103.2	123.6	119.0	117.9
85°	37.4	64.6	69.2	63.5	63.5
87.5°	15.9	26.1	22.7	17.0	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)