

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: P261137

Luminaire Tested: **24CZ-LD5-35-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261137  
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-L82765-W2A1-U-5500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3732.0 lumens  
Efficiency: N/A  
Efficacy: 150.3 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

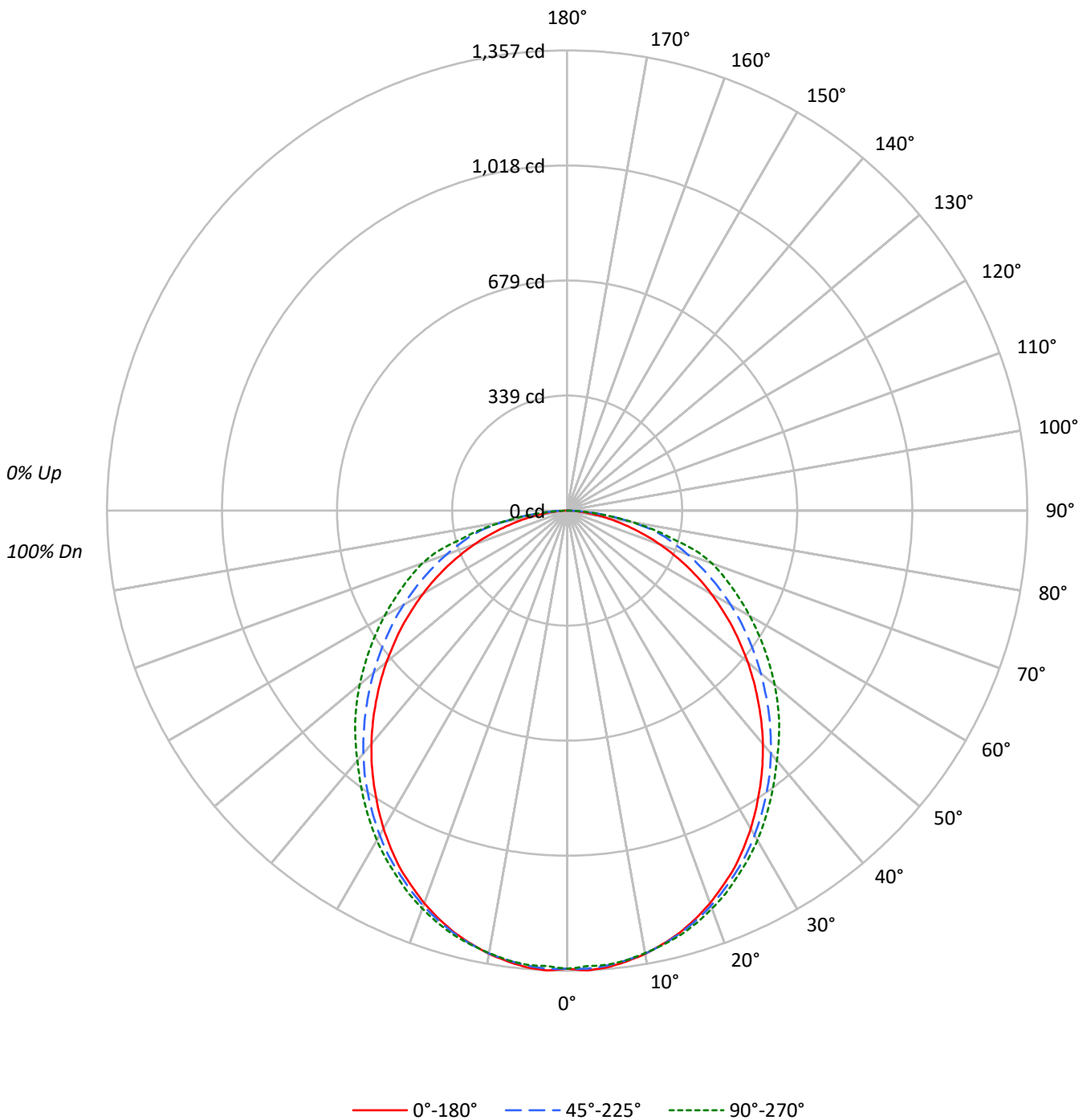
Input Watts (W): 24.831  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1818	1818	1818
5°	1826	1820	1816
10°	1814	1812	1810
15°	1794	1797	1804
20°	1764	1776	1789
25°	1729	1748	1766
30°	1682	1717	1744
35°	1630	1681	1715
40°	1577	1642	1690
45°	1517	1600	1682
50°	1456	1560	1671
55°	1392	1526	1666
60°	1320	1500	1674
65°	1241	1483	1708
70°	1143	1490	1788
75°	1014	1543	1666
80°	847	1463	1501
85°	633	1169	1073



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	3.4
10°-20°	363.3	9.7
20°-30°	541.4	14.5
30°-40°	637.3	17.1
40°-50°	647.6	17.4
50°-60°	582.3	15.6
60°-70°	460.0	12.3
70°-80°	291.8	7.8
80°-90°	80.5	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°	1032.4	27.7
0°-40°	1669.7	44.7
0°-60°	2899.6	77.7
0°-90°	3732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3732.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1352	1341	1347	1345	1345	128
15°	1288	1282	1290	1294	1295	363
25°	1165	1164	1177	1185	1190	536
35°	992	998	1023	1034	1044	621
45°	797	808	841	866	884	615
55°	594	608	651	693	710	530
65°	390	410	466	517	536	386
75°	195	228	297	323	320	208
85°	41	71	76	70	70	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1351.1	1351.1	1351.1	1351.1	1351.1
2.5°	1357.3	1347.3	1352.3	1349.8	1344.8
5°	1352.3	1341.1	1347.3	1344.8	1344.8
7.5°	1341.1	1332.4	1337.4	1336.2	1337.4
10°	1327.5	1318.8	1326.2	1326.2	1325.0
12.5°	1308.8	1301.4	1310.1	1310.1	1311.3
15°	1287.7	1281.5	1290.2	1293.9	1295.2
17.5°	1261.6	1255.4	1266.6	1270.3	1274.1
20°	1231.8	1229.4	1240.5	1244.3	1249.2
22.5°	1198.3	1198.3	1209.5	1214.5	1221.9
25°	1164.8	1163.5	1177.2	1184.7	1189.6
27.5°	1125.0	1126.3	1143.7	1151.1	1157.3
30°	1082.8	1085.3	1105.2	1113.9	1122.6
32.5°	1038.1	1043.1	1065.4	1075.4	1084.1
35°	992.2	998.4	1023.2	1034.4	1044.3
37.5°	946.2	954.9	981.0	992.2	1003.4
40°	897.8	905.3	935.1	948.7	962.4
42.5°	848.1	858.1	887.9	907.7	923.9
45°	797.2	808.4	840.7	865.5	884.1
47.5°	746.3	761.2	792.3	825.8	841.9
50°	695.4	710.3	745.1	782.3	798.5
52.5°	643.2	658.1	697.9	736.4	753.8
55°	593.6	608.5	650.7	692.9	710.3
57.5°	541.4	557.6	604.7	648.2	665.6
60°	490.5	506.6	557.6	603.5	622.1
62.5°	440.8	458.2	511.6	560.0	578.7
65°	389.9	409.8	465.7	516.6	536.4
67.5°	340.2	362.6	421.0	474.4	495.5
70°	290.6	316.7	378.7	433.4	454.5
72.5°	242.1	270.7	336.5	391.2	402.3
75°	195.0	228.5	296.8	322.9	320.4
77.5°	150.3	187.5	252.1	257.0	264.5
80°	109.3	150.3	188.8	198.7	193.7
82.5°	72.0	113.0	135.4	130.4	129.1
85°	41.0	70.8	75.7	69.5	69.5
87.5°	17.4	28.6	24.8	18.6	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)