

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: P260806

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260806  
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-LD5-35SE-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3662.0 lumens  
Efficiency: N/A  
Efficacy: 137.2 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

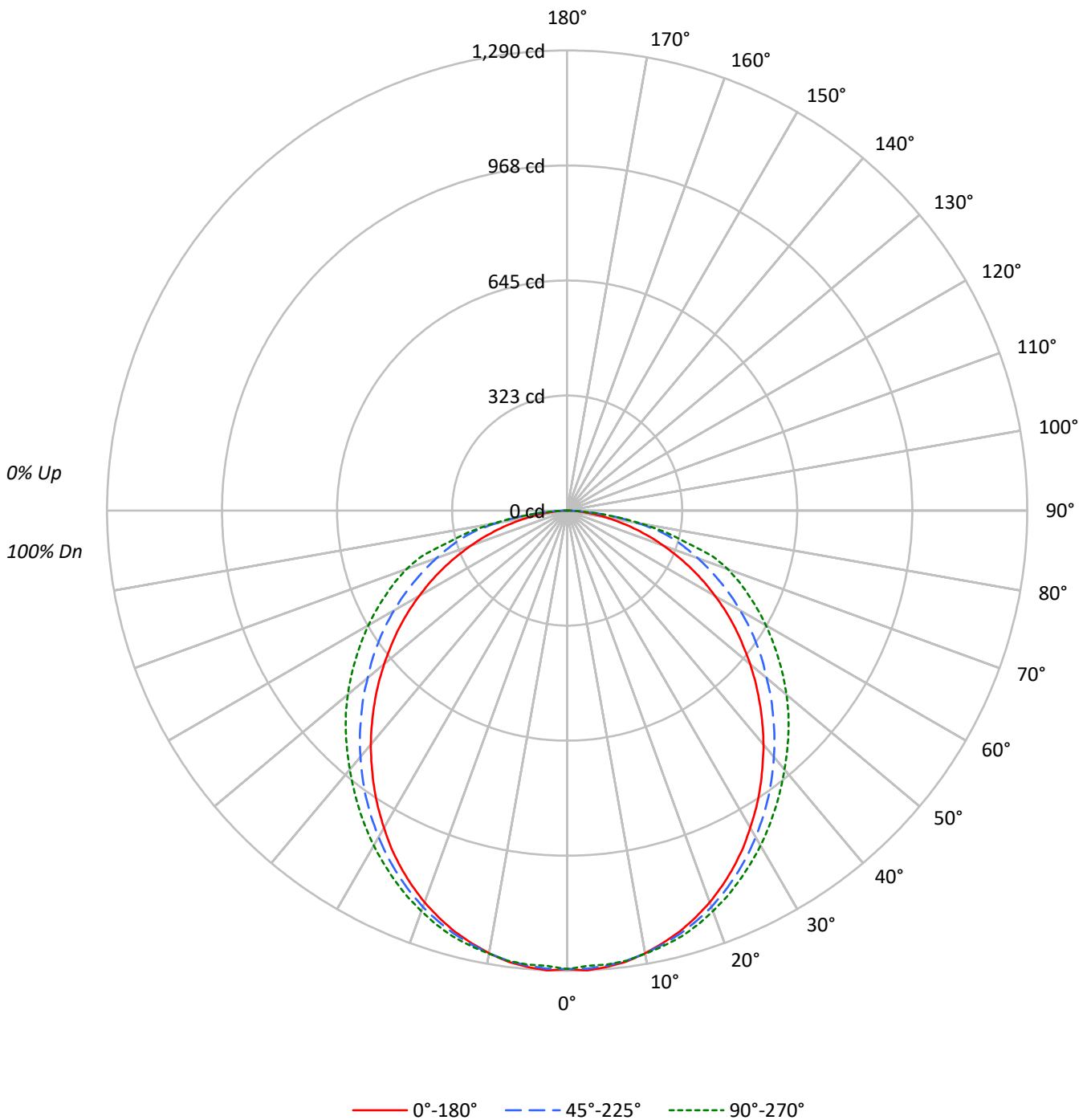
Input Watts (W): 26.691  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1729	1729	1729
5°	1734	1729	1726
10°	1722	1722	1723
15°	1701	1710	1722
20°	1673	1693	1711
25°	1638	1670	1698
30°	1595	1642	1685
35°	1551	1615	1672
40°	1504	1583	1665
45°	1453	1553	1670
50°	1401	1527	1680
55°	1350	1518	1697
60°	1289	1508	1731
65°	1222	1509	1788
70°	1129	1534	1884
75°	1010	1603	1792
80°	845	1535	1642
85°	639	1181	1122



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	3.3
10°-20°	345.6	9.4
20°-30°	516.7	14.1
30°-40°	613.0	16.7
40°-50°	630.9	17.2
50°-60°	578.8	15.8
60°-70°	468.0	12.8
70°-80°	303.7	8.3
80°-90°	83.7	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°	983.8	26.9
0°-40°	1596.8	43.6
0°-60°	2806.5	76.6
0°-90°	3662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3662.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1284	1275	1280	1279	1278	122
15°	1221	1216	1228	1232	1236	344
25°	1103	1105	1125	1135	1144	508
35°	944	952	983	1004	1018	590
45°	764	776	816	855	878	589
55°	576	593	647	700	724	514
65°	384	406	474	537	562	379
75°	194	231	308	345	345	207
85°	41	70	76	74	73	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1285.2	1285.2	1285.2	1285.2	1285.2
2.5°	1290.2	1280.2	1285.2	1283.9	1277.6
5°	1283.9	1275.1	1280.2	1278.9	1277.6
7.5°	1275.1	1266.4	1272.6	1271.4	1272.6
10°	1260.1	1252.6	1260.1	1261.3	1261.3
12.5°	1241.3	1235.0	1245.0	1247.6	1250.1
15°	1221.2	1216.2	1227.5	1232.5	1236.3
17.5°	1196.1	1192.4	1206.2	1212.4	1217.5
20°	1168.6	1167.3	1182.4	1188.6	1194.9
22.5°	1137.2	1137.2	1154.8	1162.3	1171.1
25°	1103.4	1104.6	1124.7	1134.7	1143.5
27.5°	1067.0	1068.3	1092.1	1104.6	1114.7
30°	1026.9	1031.9	1057.0	1073.3	1084.6
32.5°	986.8	993.0	1020.6	1039.4	1052.0
35°	944.1	951.7	983.0	1004.3	1018.1
37.5°	900.2	909.0	942.9	966.7	983.0
40°	856.4	866.4	901.5	929.1	947.9
42.5°	810.0	821.3	860.1	892.7	912.8
45°	763.6	776.1	816.2	855.1	877.7
47.5°	717.2	732.2	774.9	817.5	841.3
50°	669.5	684.6	729.7	778.6	802.4
52.5°	621.9	639.5	689.6	739.8	763.6
55°	575.5	593.1	647.0	699.6	723.5
57.5°	527.9	545.4	604.3	659.5	683.3
60°	479.0	499.0	560.5	616.9	643.2
62.5°	431.3	452.6	517.8	578.0	603.1
65°	383.7	406.2	473.9	536.6	561.7
67.5°	334.8	361.1	431.3	495.3	521.6
70°	287.1	316.0	389.9	453.9	479.0
72.5°	240.7	272.1	348.6	413.8	428.8
75°	194.3	230.7	308.4	344.8	344.8
77.5°	150.5	190.6	263.3	277.1	284.6
80°	109.1	153.0	198.1	214.4	211.9
82.5°	72.7	116.6	141.7	141.7	137.9
85°	41.4	70.2	76.5	74.0	72.7
87.5°	17.6	26.3	23.8	18.8	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)