

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P544623

Luminaire Tested: **4SLES-2-T8-3G-B840-U-ICF-4FT-REFL**

Issue Date: 7/2/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P544623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-256-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/2/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SLES-2-T8-3G-B840-U-ICF-4FT-REFL  
Description: 80CRI 4000K TLED with Reflector  
Light Source: MainsFit Glass TLED - (2) 4FT 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4092.1 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.35 / 1.44  
Luminous Opening: Rectangular (W 0.92' x L: 4' x H: 0')  
CIE Type: Direct

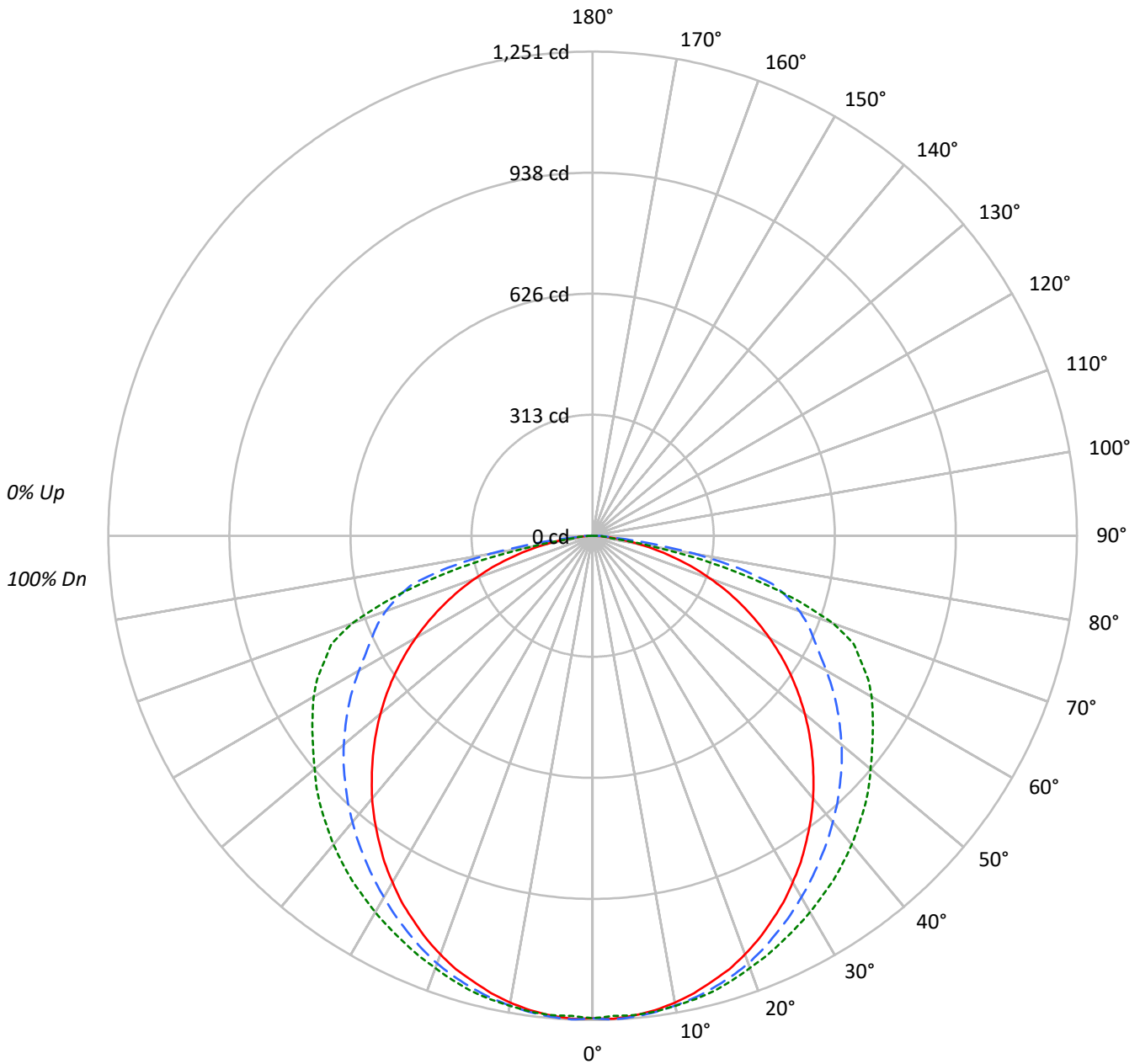
Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82								
2	97	88	81	75	94	86	79	74	83	77	72	79	75	70	76	72	69	66								
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57	55								
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46								
5	73	60	50	43	71	59	50	43	57	49	43	55	48	42	53	47	42	39								
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34								
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30								
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27								
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24								
10	51	37	29	24	50	37	29	24	36	28	24	35	28	23	34	28	23	21								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3660	3660	3660
5°	3666	3676	3664
10°	3651	3674	3676
15°	3623	3674	3700
20°	3595	3674	3713
25°	3551	3660	3750
30°	3505	3656	3807
35°	3450	3667	3890
40°	3396	3699	3992
45°	3331	3752	4122
50°	3269	3833	4281
55°	3194	3943	4523
60°	3093	4094	4888
65°	2964	4376	5305
70°	2769	4882	5667
75°	2458	5459	4850
80°	2017	4516	2543
85°	1273	1556	1246



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.1	2.9
10°-20°	339.7	8.3
20°-30°	519.1	12.7
30°-40°	639.6	15.6
40°-50°	693.3	16.9
50°-60°	679.4	16.6
60°-70°	607.2	14.8
70°-80°	408.4	10.0
80°-90°	87.4	2.1
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°	976.8	23.9
0°-40°	1616.4	39.5
0°-60°	2989.1	73.0
0°-90°	4092.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4092.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1244	1229	1247	1247	1243	118
15°	1192	1182	1209	1218	1217	337
25°	1096	1094	1130	1150	1158	505
35°	963	970	1023	1067	1085	603
45°	802	820	904	968	993	619
55°	624	659	770	851	884	557
65°	427	494	630	733	764	422
75°	217	333	481	449	428	231
85°	38	132	46	37	37	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1246.6	1246.6	1246.6	1246.6	1246.6
2.5°	1249.1	1232.3	1250.8	1250.8	1241.5
5°	1244.0	1228.9	1247.4	1247.4	1243.2
7.5°	1236.5	1222.2	1241.5	1241.5	1239.8
10°	1224.7	1211.3	1232.3	1234.8	1233.1
12.5°	1210.4	1197.8	1222.2	1227.2	1226.4
15°	1192.0	1181.9	1208.8	1218.0	1217.2
17.5°	1174.3	1163.4	1193.6	1204.6	1203.7
20°	1150.8	1142.4	1176.0	1186.1	1188.6
22.5°	1125.6	1118.9	1154.2	1167.6	1174.3
25°	1096.2	1093.7	1129.8	1150.0	1157.5
27.5°	1067.6	1065.1	1105.4	1132.3	1140.7
30°	1034.0	1035.7	1078.6	1110.5	1123.1
32.5°	1000.4	1003.8	1051.7	1088.6	1103.8
35°	962.6	970.2	1023.1	1066.8	1085.3
37.5°	925.7	934.9	995.4	1045.0	1063.4
40°	886.2	897.1	965.2	1020.6	1041.6
42.5°	844.2	859.3	935.8	994.6	1016.4
45°	802.2	819.8	903.8	968.5	992.9
47.5°	759.4	781.2	872.8	941.6	966.8
50°	715.7	741.7	839.2	912.2	937.4
52.5°	670.3	700.6	804.7	880.3	909.7
55°	624.1	659.4	770.3	850.9	883.7
57.5°	576.2	619.1	734.2	823.2	857.6
60°	526.7	577.1	697.2	796.3	832.4
62.5°	477.1	535.9	661.1	770.3	802.2
65°	426.7	493.9	630.0	733.3	763.6
67.5°	375.5	452.8	602.3	696.4	730.0
70°	322.6	412.4	568.7	655.2	660.2
72.5°	272.2	370.4	527.5	567.8	553.6
75°	216.7	332.6	481.3	449.4	427.6
77.5°	167.2	304.1	384.7	321.7	294.8
80°	119.3	269.6	267.1	181.4	150.4
82.5°	76.4	224.3	142.0	56.3	46.2
85°	37.8	131.9	46.2	37.0	37.0
87.5°	13.4	52.1	31.9	21.8	19.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)