

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: CORELITE

Report Number: 23309

Luminaire Tested: **R2-WB-3N5-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 23309  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2-WB-3N5-24  
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH  
WHITE BAFFLE  
Light Source: THREE SYLVANIA 28 WATT T5 LAMPS  
  
FP28/841. LUMEN RATING = 2600 LMS.  
  
Ballast/Driver: -

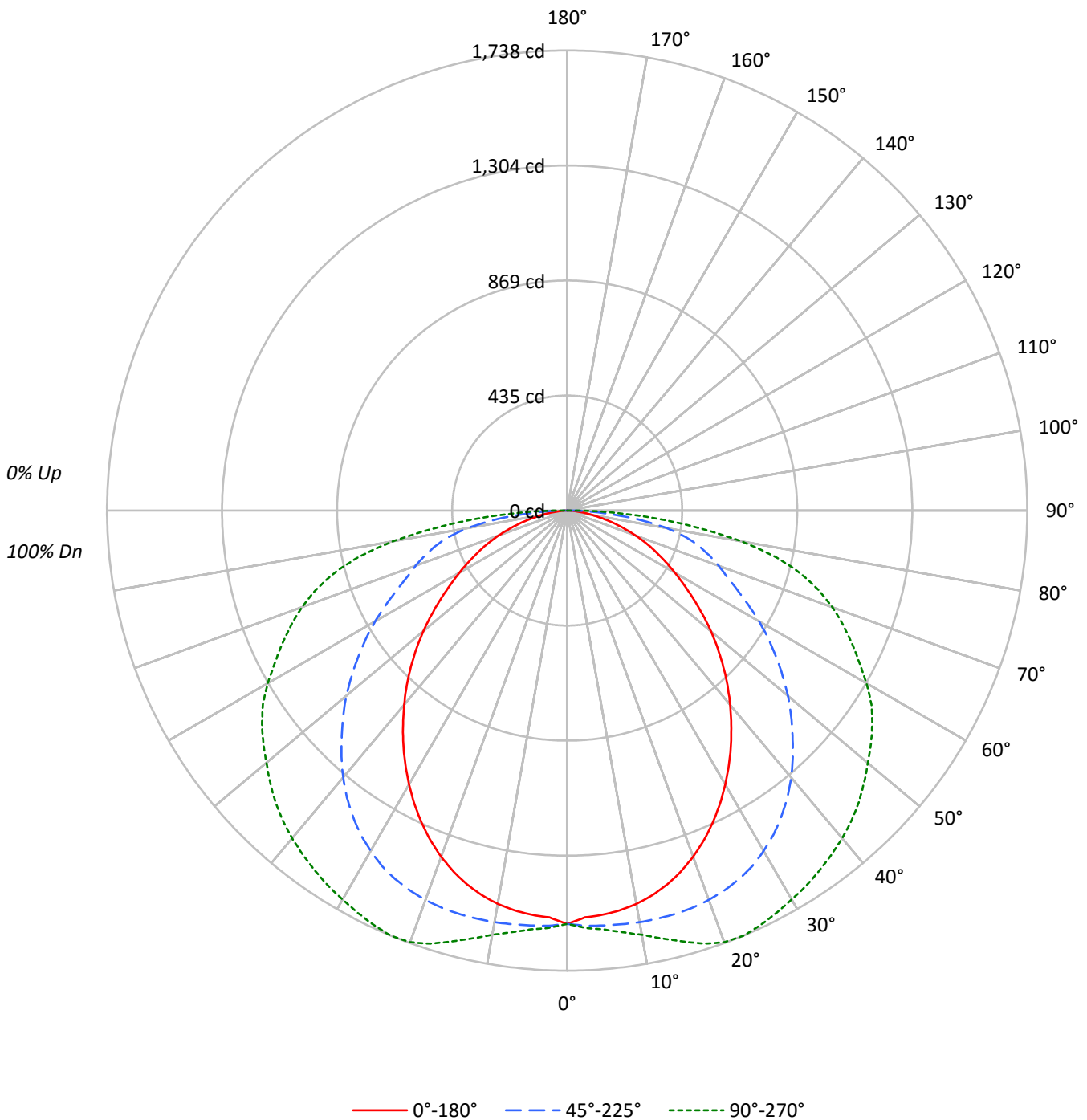
**Summary**

Lumens per Lamp: 2600 (3 lamps)  
Luminaire Lumens: 5432.9 lumens  
Efficiency: 69.7%  
Efficacy: 63.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.59 / 1.49  
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 85  
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	0
RCR																		
0	83	83	83	83	81	81	81	81	77	77	77	74	74	74	71	71	71	70
1	75	71	68	64	73	69	66	63	66	64	61	64	61	59	61	59	58	56
2	67	61	56	51	65	60	55	51	57	53	50	55	51	48	53	50	47	46
3	61	53	47	42	59	52	46	42	50	45	41	48	44	40	46	43	39	38
4	56	47	40	35	54	46	40	35	44	39	34	42	38	34	41	37	34	32
5	51	42	35	30	50	41	35	30	39	34	30	38	33	29	37	32	29	27
6	47	37	31	26	46	37	30	26	35	30	26	34	29	25	33	29	25	24
7	44	34	27	23	42	33	27	23	32	27	23	31	26	22	30	26	22	21
8	41	31	25	20	39	30	24	20	29	24	20	28	24	20	28	23	20	18
9	38	28	22	18	37	28	22	18	27	22	18	26	21	18	25	21	18	17
10	35	26	20	16	35	26	20	16	25	20	16	24	20	16	24	19	16	15

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

	0°	45°	90°
0°	2198	2198	2198
5°	2166	2223	2245
10°	2157	2257	2327
15°	2131	2299	2455
20°	2085	2345	2600
25°	2021	2387	2684
30°	1942	2414	2758
35°	1854	2425	2854
40°	1761	2420	2970
45°	1662	2397	3102
50°	1552	2385	3248
55°	1432	2366	3454
60°	1323	2358	3677
65°	1234	2362	3953
70°	1135	2504	4388
75°	984	2797	4952
80°	782	3105	5416
85°	548	2874	5382



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	149.7	2.8	1.9
10°-20°	445.6	8.2	5.7
20°-30°	702.1	12.9	9.0
30°-40°	864.4	15.9	11.1
40°-50°	919.1	16.9	11.8
50°-60°	868.3	16.0	11.1
60°-70°	731.3	13.5	9.4
70°-80°	545.6	10.0	7.0
80°-90°	206.9	3.8	2.7
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	1297.3	23.9	16.6
0°-40°	2161.7	39.8	27.7
0°-60°	3949.1	72.7	50.6
0°-90°	5432.9	100.0	69.7
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	5432.9	100.0	69.7

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1561	1561	1561	1561	1561	
5°	1533	1548	1573	1584	1588	146
15°	1462	1497	1577	1652	1684	411
25°	1301	1367	1536	1682	1727	598
35°	1079	1170	1411	1576	1660	674
45°	834	929	1204	1434	1558	643
55°	583	673	964	1253	1407	523
65°	370	430	709	1026	1186	367
75°	181	246	514	784	910	193
85°	34	100	178	274	333	43
90°	3	9	22	40	53	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1561.0	1561.0	1561.0	1561.0	1561.0
2.5°	1537.9	1549.9	1569.7	1575.1	1577.7
5°	1532.6	1547.8	1572.8	1583.8	1588.2
7.5°	1523.2	1541.7	1575.8	1596.2	1606.1
10°	1508.4	1531.9	1578.8	1611.4	1627.1
12.5°	1487.9	1517.2	1578.9	1630.8	1655.1
15°	1461.5	1496.7	1577.0	1652.0	1684.3
17.5°	1429.1	1471.1	1573.4	1669.8	1714.9
20°	1391.3	1440.9	1564.6	1687.2	1734.8
22.5°	1348.4	1405.6	1552.5	1691.3	1738.3
25°	1300.7	1367.0	1536.0	1682.0	1727.4
27.5°	1249.1	1323.4	1514.1	1660.1	1712.8
30°	1194.6	1275.4	1484.4	1633.9	1696.2
32.5°	1137.4	1223.9	1451.0	1605.8	1680.2
35°	1078.6	1170.1	1410.7	1575.6	1660.3
37.5°	1018.3	1112.4	1366.3	1543.8	1639.1
40°	958.0	1052.5	1316.3	1509.2	1615.8
42.5°	896.6	991.0	1261.3	1472.8	1588.8
45°	834.4	928.9	1203.9	1433.8	1557.9
47.5°	771.6	868.2	1147.2	1390.8	1521.2
50°	708.6	804.6	1088.9	1346.5	1482.7
52.5°	645.4	738.7	1025.9	1300.1	1446.3
55°	583.2	672.9	963.7	1252.8	1407.0
57.5°	524.5	607.1	900.9	1200.6	1362.6
60°	469.8	544.4	837.2	1142.5	1305.6
62.5°	418.7	485.3	771.6	1081.5	1244.0
65°	370.3	429.9	708.9	1025.7	1186.5
67.5°	323.0	378.5	653.5	971.7	1127.2
70°	275.7	329.9	608.3	917.0	1065.9
72.5°	227.9	285.4	562.8	855.4	994.9
75°	180.8	245.6	514.1	783.7	910.1
77.5°	136.6	212.9	456.6	693.9	805.2
80°	96.4	184.0	382.9	579.9	667.9
82.5°	61.7	148.7	287.6	431.4	497.8
85°	33.9	99.5	177.9	274.1	333.1
87.5°	13.9	44.0	78.0	132.7	166.1
90°	3.3	9.2	22.2	40.5	52.7

(END OF REPORT)