

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: 23391

Luminaire Tested: **R2-WL-3N5-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23391
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WL-3N5-14
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS

Light Source: THREE SYLVANIA 28 WATT T5 LAMPS

FP28/841. LUMEN RATING = 2600 LMS.

Ballast/Driver: -

Summary

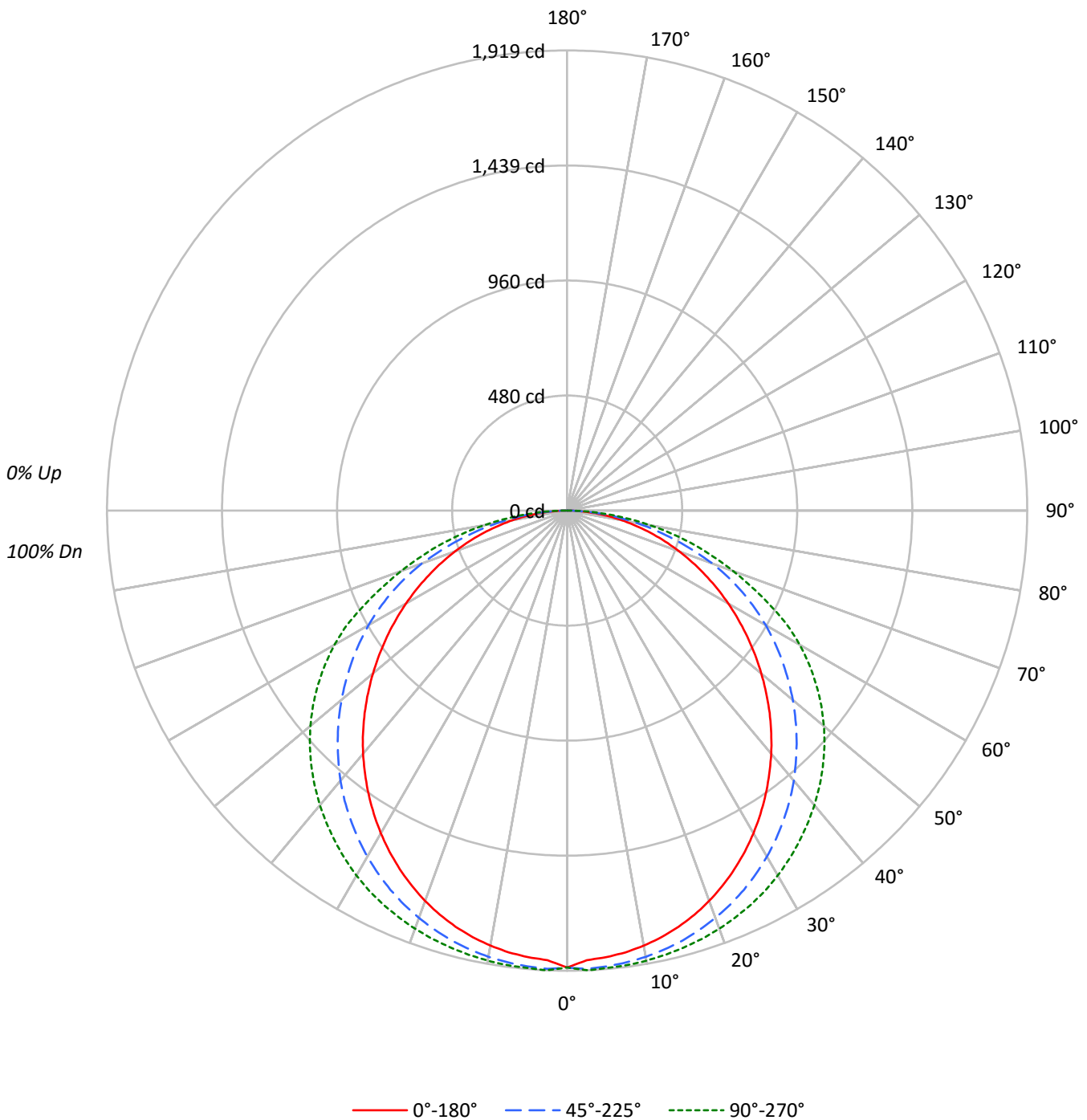
Lumens per Lamp: 2600 (3 lamps)
Luminaire Lumens: 5927.2 lumens
Efficiency: 76.0%
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.37 / 1.42
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 86
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	90	90	90	90	88	88	88	88	84	84	84	81	81	81	78	78	78	76
1	82	78	75	72	80	77	73	71	73	71	68	70	68	66	68	66	64	63
2	74	68	62	58	72	66	61	57	64	59	56	61	58	54	59	56	53	51
3	68	59	53	48	66	58	52	47	56	51	46	54	49	45	52	48	45	43
4	62	52	45	40	60	51	45	40	49	44	39	47	43	39	46	42	38	36
5	57	47	39	34	55	46	39	34	44	38	34	43	37	33	41	37	33	31
6	52	42	35	30	51	41	34	30	40	34	29	38	33	29	37	32	29	27
7	48	38	31	26	47	37	31	26	36	30	26	35	30	26	34	29	25	24
8	45	34	28	23	44	34	28	23	33	27	23	32	27	23	31	26	23	21
9	42	32	25	21	41	31	25	21	30	25	21	29	24	21	29	24	20	19
10	39	29	23	19	38	29	23	19	28	23	19	27	22	19	27	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5687	5687	5687
5°	5601	5717	5737
10°	5584	5727	5777
15°	5551	5736	5825
20°	5502	5741	5893
25°	5435	5745	5971
30°	5355	5743	6056
35°	5260	5737	6143
40°	5158	5730	6248
45°	5041	5712	6366
50°	4908	5703	6491
55°	4773	5701	6602
60°	4635	5710	6691
65°	4491	5699	6601
70°	4332	5616	6426
75°	4164	5295	6306
80°	3960	5031	6021
85°	3609	4623	5527



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	180.8	3.0	2.3
10°-20°	521.9	8.8	6.7
20°-30°	801.0	13.5	10.3
30°-40°	981.8	16.6	12.6
40°-50°	1042.6	17.6	13.4
50°-60°	976.9	16.5	12.5
60°-70°	785.0	13.2	10.1
70°-80°	484.4	8.2	6.2
80°-90°	152.9	2.6	2.0
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°	1503.6	25.4	19.3
0°-40°	2485.3	41.9	31.9
0°-60°	4504.9	76.0	57.8
0°-90°	5927.2	100.0	76.0
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°	5927.2	100.0	76.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1870	1885	1908	1914	1915	178
15°	1797	1817	1856	1878	1885	507
25°	1650	1681	1744	1792	1813	760
35°	1444	1483	1574	1652	1686	903
45°	1194	1240	1353	1461	1508	921
55°	917	966	1096	1218	1269	820
65°	636	683	807	907	935	630
75°	361	403	459	519	547	382
85°	105	116	135	154	161	120
90°	8	12	14	16	17	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1905.3	1905.3	1905.3	1905.3	1905.3
2.5°	1876.5	1890.7	1912.9	1917.5	1918.7
5°	1869.6	1884.6	1908.0	1914.2	1915.0
7.5°	1858.4	1874.5	1900.1	1908.4	1911.9
10°	1842.4	1859.9	1889.6	1901.2	1906.0
12.5°	1821.8	1840.9	1874.9	1891.3	1897.1
15°	1796.6	1817.1	1856.4	1877.8	1885.2
17.5°	1766.9	1789.2	1834.0	1859.8	1872.4
20°	1732.4	1757.1	1807.5	1841.3	1855.5
22.5°	1693.5	1720.7	1778.2	1818.1	1835.7
25°	1650.4	1680.6	1744.5	1792.5	1813.2
27.5°	1604.0	1636.5	1707.0	1762.2	1787.6
30°	1553.8	1588.9	1666.3	1729.1	1757.1
32.5°	1500.3	1537.5	1622.0	1692.0	1723.3
35°	1443.7	1483.3	1574.5	1652.1	1686.1
37.5°	1385.0	1426.2	1524.4	1609.3	1646.5
40°	1323.9	1366.3	1470.7	1562.5	1603.7
42.5°	1260.2	1303.7	1412.6	1513.1	1557.8
45°	1194.2	1239.7	1353.3	1460.9	1508.3
47.5°	1126.2	1174.3	1291.9	1405.5	1455.2
50°	1057.1	1106.1	1228.3	1347.0	1398.0
52.5°	987.5	1036.0	1162.0	1284.3	1335.9
55°	917.3	966.2	1095.6	1217.6	1268.8
57.5°	846.9	896.0	1026.6	1147.4	1197.2
60°	776.5	825.2	956.6	1073.6	1120.9
62.5°	706.0	754.4	882.5	994.9	1036.4
65°	635.9	683.4	806.9	906.8	934.7
67.5°	565.7	613.1	727.3	804.7	833.3
70°	496.4	543.1	643.6	706.3	736.4
72.5°	428.0	472.9	549.9	610.3	640.0
75°	361.1	402.7	459.2	519.2	546.8
77.5°	295.1	330.2	373.8	427.1	448.3
80°	230.4	255.8	292.7	333.9	350.3
82.5°	166.8	182.2	212.4	242.7	253.9
85°	105.4	115.9	135.0	153.5	161.4
87.5°	47.7	54.9	62.5	70.5	74.7
90°	8.4	11.5	13.7	15.5	17.3

(END OF REPORT)