

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: 23392

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23392
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-Wb-3N5-14
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

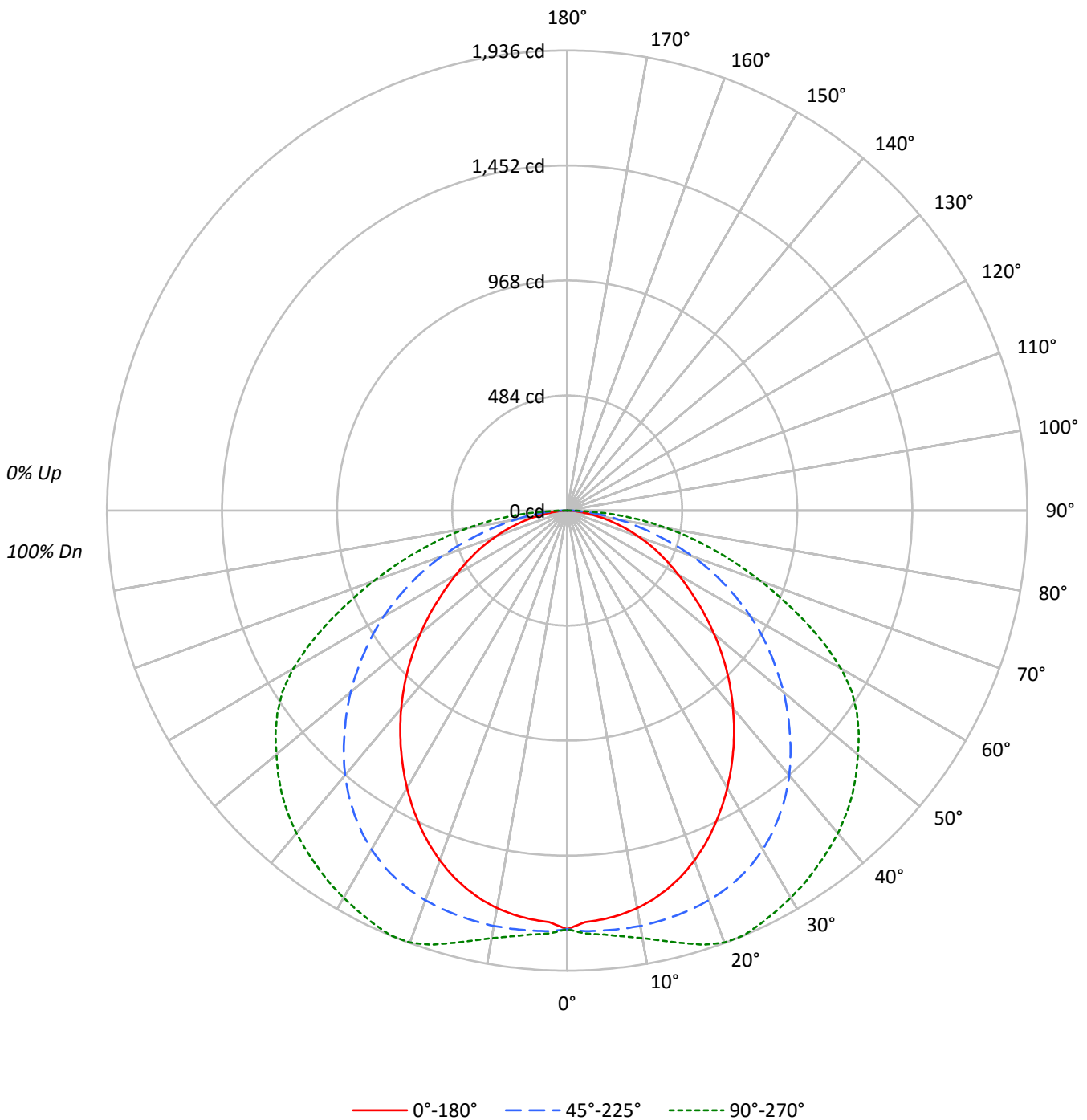
Lumens per Lamp: 2600 (3 lamps)
Luminaire Lumens: 5635.8 lumens
Efficiency: 72.3%
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.56 / 1.47
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

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									
RC	80									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	50	30	10	0													
RCR																																					
0	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72																			
1	78	75	72	69	76	73	70	67	70	68	65	67	65	63	65	63	61	60																			
2	71	65	60	55	69	63	59	55	61	57	54	58	55	52	56	54	51	49																			
3	65	57	51	46	63	56	50	45	53	49	45	51	47	44	49	46	43	41																			
4	59	50	44	39	57	49	43	38	47	42	38	46	41	37	44	40	37	35																			
5	54	45	38	33	53	44	38	33	42	37	32	41	36	32	39	35	32	30																			
6	50	40	33	29	49	39	33	29	38	32	28	37	32	28	36	31	28	26																			
7	46	36	30	25	45	36	30	25	35	29	25	33	28	25	32	28	25	23																			
8	43	33	27	22	42	33	27	22	32	26	22	31	26	22	30	25	22	21																			
9	40	30	24	20	39	30	24	20	29	24	20	28	23	20	27	23	20	18																			
10	38	28	22	18	37	27	22	18	27	22	18	26	21	18	25	21	18	17																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5256	5256	5256
5°	5173	5314	5364
10°	5147	5378	5536
15°	5083	5452	5820
20°	4976	5541	6142
25°	4823	5622	6323
30°	4644	5673	6482
35°	4443	5685	6671
40°	4232	5664	6905
45°	4001	5592	7159
50°	3747	5521	7414
55°	3474	5424	7746
60°	3225	5323	7947
65°	3026	5138	7793
70°	2803	4891	7552
75°	2461	4364	7373
80°	1978	3811	7341
85°	1308	3411	7020



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	168.6	3.0	2.2
10°-20°	499.1	8.9	6.4
20°-30°	782.5	13.9	10.0
30°-40°	959.1	17.0	12.3
40°-50°	1011.6	18.0	13.0
50°-60°	937.7	16.6	12.0
60°-70°	727.7	12.9	9.3
70°-80°	423.8	7.5	5.4
80°-90°	125.6	2.2	1.6
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°	1450.3	25.7	18.6
0°-40°	2409.3	42.8	30.9
0°-60°	4358.7	77.3	55.9
0°-90°	5635.8	100.0	72.3
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°	5635.8	100.0	72.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1726	1745	1774	1786	1790	164
15°	1645	1683	1764	1846	1884	463
25°	1465	1529	1707	1869	1920	674
35°	1220	1308	1560	1738	1831	762
45°	948	1040	1325	1559	1696	731
55°	668	754	1042	1327	1489	599
65°	428	478	728	972	1104	425
75°	213	255	378	537	639	227
85°	38	52	100	163	205	50
90°	2	4	10	16	22	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.0	1761.0	1761.0	1761.0	1761.0
2.5°	1733.0	1747.6	1771.1	1778.3	1781.2
5°	1726.5	1745.1	1773.5	1786.4	1790.5
7.5°	1715.3	1737.9	1774.6	1796.5	1807.1
10°	1698.3	1725.4	1774.6	1809.2	1826.5
12.5°	1674.9	1707.2	1770.8	1825.7	1853.2
15°	1645.0	1682.6	1764.5	1845.5	1883.5
17.5°	1608.8	1651.9	1756.5	1863.1	1915.0
20°	1566.5	1616.9	1744.6	1879.5	1933.7
22.5°	1518.2	1574.9	1728.7	1881.3	1935.5
25°	1464.6	1529.2	1707.0	1868.6	1920.0
27.5°	1407.7	1479.5	1680.7	1840.9	1901.4
30°	1347.5	1425.7	1646.0	1810.2	1880.7
32.5°	1284.4	1367.9	1606.8	1776.1	1858.8
35°	1219.5	1307.5	1560.4	1738.4	1830.9
37.5°	1153.4	1243.4	1510.3	1697.2	1802.8
40°	1086.1	1176.7	1453.8	1654.2	1772.3
42.5°	1017.4	1108.6	1391.2	1608.2	1735.8
45°	948.0	1039.5	1324.9	1559.3	1696.1
47.5°	877.3	970.2	1257.9	1505.2	1648.1
50°	807.0	900.4	1189.1	1449.2	1596.7
52.5°	736.6	827.6	1115.6	1389.6	1546.6
55°	667.6	753.6	1042.4	1327.4	1488.6
57.5°	601.8	680.1	968.1	1255.7	1420.2
60°	540.3	608.7	891.7	1173.1	1331.3
62.5°	483.0	541.5	810.0	1078.2	1223.7
65°	428.4	478.2	727.5	971.9	1103.5
67.5°	375.1	419.0	645.5	858.2	982.2
70°	321.2	362.1	560.5	747.0	865.4
72.5°	267.0	307.6	468.1	638.9	750.8
75°	213.4	255.1	378.4	536.9	639.4
77.5°	162.3	202.1	296.3	438.6	533.3
80°	115.1	146.2	221.7	345.6	427.1
82.5°	73.0	93.7	158.5	253.8	318.9
85°	38.2	52.1	99.6	163.1	205.0
87.5°	13.5	21.5	45.5	74.1	95.5
90°	2.2	4.1	9.6	15.7	22.1

(END OF REPORT)