

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: 23390

Luminaire Tested: **R2-WB-1N5-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23390
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WB-1N5-14
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH
WHITE BAFFLE
Light Source: ONE SYLVANIA 28 WATT T5 LAMP

FP28/841. LUMEN RATING = 2600 LMS.

Ballast/Driver: -

Summary

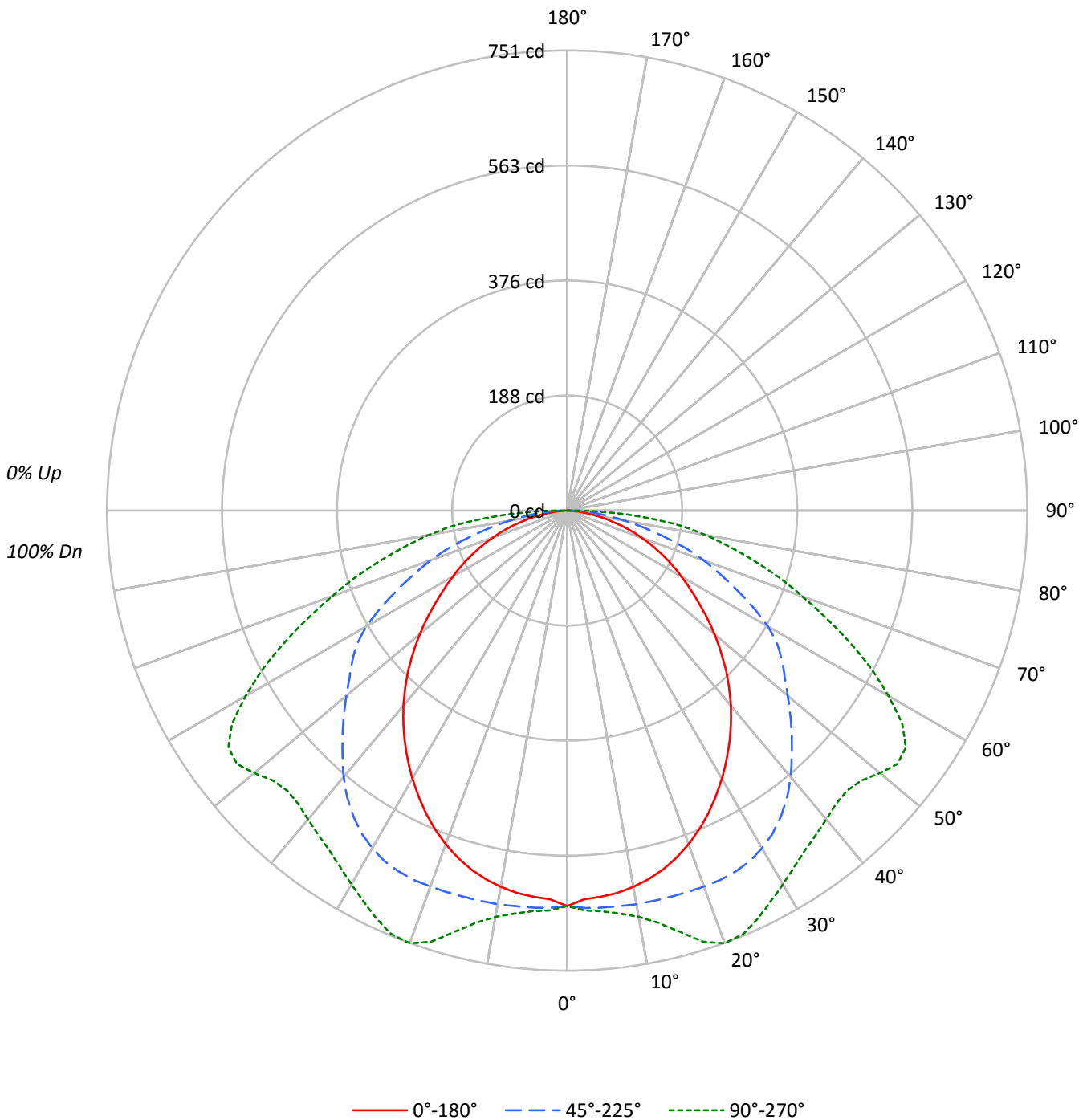
Lumens per Lamp: 2600 (1 lamp)
Luminaire Lumens: 2260.4 lumens
Efficiency: 86.9%
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.57 / 1.52
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: 23390
CATALOG NUMBER: R2-WB-1N5-14

Luminous Intensity Polar Plot





TEST NUMBER: 23390

CATALOG NUMBER: R2-WB-1N5-14

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	103	103	103	103	101	101	101	101	97	97	97		92	92	92		89	89	89	87
1	94	89	85	82	91	87	84	80	83	80	78		80	78	75		77	75	73	71
2	85	77	71	65	82	75	69	65	72	67	63		69	65	62		67	63	60	58
3	77	67	60	54	75	66	59	53	63	57	52		61	55	51		58	54	50	48
4	70	59	51	45	68	58	50	44	56	49	44		54	48	43		52	47	43	41
5	64	52	44	38	62	51	44	38	50	43	38		48	42	37		46	41	37	35
6	59	47	39	33	57	46	38	33	45	38	33		43	37	32		42	36	32	30
7	55	42	35	29	53	42	34	29	40	34	29		39	33	28		38	32	28	26
8	51	39	31	26	49	38	31	26	37	30	25		36	30	25		35	29	25	23
9	47	35	28	23	46	35	28	23	34	27	23		33	27	23		32	27	23	21
10	44	33	25	21	43	32	25	21	31	25	21		30	25	21		30	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1926	1926	1926
5°	1896	1948	1967
10°	1889	1977	2040
15°	1873	2016	2199
20°	1840	2074	2386
25°	1795	2140	2422
30°	1740	2193	2427
35°	1682	2217	2466
40°	1619	2211	2563
45°	1544	2188	2727
50°	1457	2182	3094
55°	1364	2228	3511
60°	1286	2259	3616
65°	1216	2153	3594
70°	1131	2072	3559
75°	1006	1876	3638
80°	822	1636	3943
85°	548	1503	4377



TEST NUMBER: 23390
 CATALOG NUMBER: R2-WB-1N5-14

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	61.9	2.7	2.4
10°-20°	186.1	8.2	7.2
20°-30°	297.2	13.2	11.4
30°-40°	363.9	16.1	14.0
40°-50°	390.0	17.3	15.0
50°-60°	390.7	17.3	15.0
60°-70°	314.3	13.9	12.1
70°-80°	191.4	8.5	7.4
80°-90°	64.9	2.9	2.5
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°	545.2	24.1	21.0
0°-40°	909.1	40.2	35.0
0°-60°	1689.9	74.8	65.0
0°-90°	2260.4	100.0	86.9
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°	2260.4	100.0	86.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	633	640	650	655	656	60
15°	606	620	652	691	712	171
25°	545	571	650	724	735	251
35°	462	494	608	652	677	289
45°	366	396	518	592	646	282
55°	262	291	428	577	675	235
65°	172	190	305	436	509	170
75°	87	103	163	255	316	93
85°	16	22	44	98	128	21
90°	0	1	5	12	17	



TEST NUMBER: 23390
 CATALOG NUMBER: R2-WB-1N5-14

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	645.4	645.4	645.4	645.4	645.4
2.5°	634.9	640.7	649.2	652.1	653.1
5°	632.8	639.8	650.3	654.9	656.4
7.5°	629.2	638.0	651.1	659.5	663.4
10°	623.4	633.9	652.4	666.0	673.2
12.5°	615.8	627.9	652.3	675.9	689.0
15°	606.0	620.4	652.5	691.3	711.6
17.5°	593.8	610.6	652.7	709.2	737.6
20°	579.4	599.4	653.0	726.6	751.3
22.5°	563.1	585.7	652.5	731.2	748.6
25°	545.0	570.6	649.9	724.2	735.3
27.5°	525.5	554.2	645.1	708.8	719.2
30°	505.0	535.7	636.2	690.6	704.3
32.5°	483.6	515.7	624.4	671.8	689.7
35°	461.7	494.4	608.4	652.4	676.7
37.5°	439.1	470.8	589.6	635.5	667.0
40°	415.6	446.2	567.4	620.3	657.7
42.5°	391.1	421.3	542.7	605.9	649.4
45°	365.9	396.1	518.3	592.2	646.1
47.5°	339.9	370.3	494.0	583.0	651.9
50°	313.8	344.2	470.0	581.4	666.3
52.5°	287.6	317.5	447.6	583.3	679.2
55°	262.2	290.9	428.2	576.7	674.8
57.5°	238.1	264.6	407.2	554.4	648.7
60°	215.4	238.6	378.5	517.9	605.8
62.5°	193.7	213.6	342.4	475.8	559.9
65°	172.2	189.8	304.9	436.4	508.9
67.5°	150.8	167.1	269.2	390.4	456.4
70°	129.6	145.1	237.4	342.2	407.8
72.5°	108.2	123.7	201.0	297.6	361.9
75°	87.2	103.0	162.7	255.0	315.5
77.5°	66.9	81.5	126.9	213.9	270.6
80°	47.8	60.3	95.2	176.2	229.4
82.5°	30.6	39.4	67.5	139.4	184.9
85°	16.0	21.6	43.9	97.7	127.8
87.5°	5.2	8.5	21.1	50.4	66.5
90°	0.4	1.3	4.6	12.3	16.7

(END OF REPORT)