

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: ITL67619

Luminaire Tested: **R2-WB-2N5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67619
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WB-2N5-1C-UNV-24-T1
Description: FORMED WHITE PAINTED METAL REFLECTOR, FORMED WHITE PAINTED METAL BALLAST COVER, FABRICATED WHITE PAINTED METAL END PLATES, EXTRUDED CLEAR LINEAR PRISMATIC PLASTIC LENS WITH MOLDED WHITE PLASTIC 83-CELL INTERIOR LOUVER, BOTTOM LENS PRISMS UP AND PARALLEL WITH LAMPS, SIDE PRISMS OUT AND PARALLEL WITH LAMPS.
Light Source: TWO 28-WATT T-5 SYLVANIA FP28/835 LINEAR FLUORESCENTS.
Ballast/Driver: GE GE228MVPS-A

Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4418.5 lumens
Efficiency: 85.0%
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.35 / 1.35
Luminous Opening: Rectangular (W 1.93' x L: 3.91' x H: 0')
CIE Type: Direct

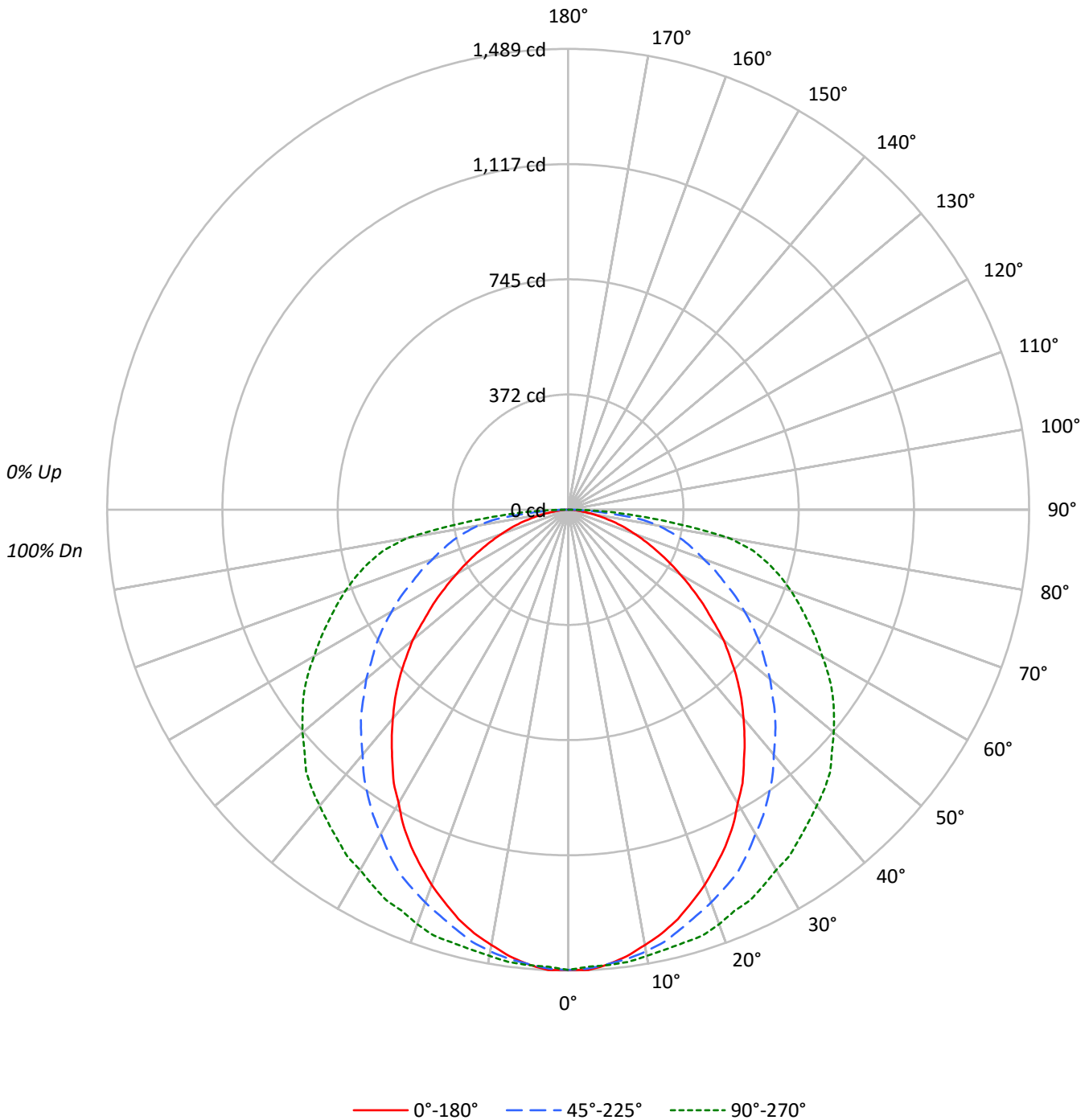
Input Watts (W): 63.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: ITL67619

CATALOG NUMBER: R2-WB-2N5-1C-UNV-24-T1

Luminous Intensity Polar Plot





TEST NUMBER: ITL67619

CATALOG NUMBER: R2-WB-2N5-1C-UNV-24-T1

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	101	101	101	101	99	99	99	99	94	94	94		90	90	90		87	87	87	85
1	91	87	83	79	89	85	81	78	81	78	75		78	75	73		75	73	71	69
2	83	75	69	64	80	73	68	63	70	66	61		68	64	60		65	62	59	57
3	75	66	58	52	73	64	57	52	62	56	51		59	54	50		57	53	49	47
4	69	58	50	44	67	57	49	44	55	48	43		53	47	43		51	46	42	40
5	63	52	44	38	61	51	43	38	49	42	37		47	41	37		46	40	36	34
6	58	46	39	33	56	46	38	33	44	37	32		43	37	32		41	36	32	30
7	54	42	34	29	52	41	34	29	40	33	29		39	33	28		38	32	28	27
8	50	38	31	26	49	38	31	26	37	30	26		36	30	25		35	29	25	24
9	47	35	28	23	46	35	28	23	34	27	23		33	27	23		32	27	23	21
10	44	33	26	21	43	32	25	21	31	25	21		30	25	21		30	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2118	2118	2118
5°	2109	2107	2112
10°	2065	2095	2117
15°	2018	2069	2135
20°	1955	2046	2160
25°	1887	2033	2187
30°	1801	1990	2210
35°	1721	1961	2260
40°	1638	1920	2322
45°	1553	1905	2411
50°	1451	1885	2481
55°	1321	1880	2590
60°	1188	1874	2700
65°	1068	1877	2878
70°	954	1936	3190
75°	836	2124	3676
80°	648	2428	4322
85°	458	2010	3562



TEST NUMBER: ITL67619

CATALOG NUMBER: R2-WB-2N5-1C-UNV-24-T1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	140.0	3.2	2.7
10°-20°	397.0	9.0	7.6
20°-30°	595.2	13.5	11.4
30°-40°	712.1	16.1	13.7
40°-50°	743.3	16.8	14.3
50°-60°	688.6	15.6	13.2
60°-70°	569.1	12.9	10.9
70°-80°	420.5	9.5	8.1
80°-90°	152.8	3.5	2.9
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°	1132.2	25.6	21.8
0°-40°	1844.3	41.7	35.5
0°-60°	3276.1	74.1	63.0
0°-90°	4418.5	100.0	85.0
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°	4418.5	100.0	85.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1475	1475	1474	1476	1477	139
15°	1369	1381	1403	1432	1448	385
25°	1201	1228	1294	1352	1392	552
35°	990	1038	1128	1245	1300	620
45°	771	815	946	1113	1197	593
55°	532	588	757	951	1043	476
65°	317	387	557	763	854	316
75°	152	228	386	576	668	160
85°	28	88	123	179	218	34
90°	0	0	0	0	0	



TEST NUMBER: ITL67619

CATALOG NUMBER: R2-WB-2N5-1C-UNV-24-T1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1487	1487	1487	1487	1487
2.5°	1489	1486	1484	1478	1478
5°	1475	1475	1474	1476	1477
7.5°	1455	1456	1464	1471	1474
10°	1428	1435	1449	1462	1464
12.5°	1402	1408	1431	1446	1455
15°	1369	1381	1403	1432	1448
17.5°	1329	1350	1376	1421	1443
20°	1290	1313	1350	1405	1425
22.5°	1245	1273	1322	1379	1403
25°	1201	1228	1294	1352	1392
27.5°	1152	1184	1253	1332	1368
30°	1095	1133	1210	1298	1344
32.5°	1048	1086	1172	1271	1328
35°	990	1038	1128	1245	1300
37.5°	936	983	1084	1211	1274
40°	881	929	1033	1178	1249
42.5°	827	869	990	1145	1225
45°	771	815	946	1113	1197
47.5°	711	759	896	1079	1155
50°	655	702	851	1035	1120
52.5°	588	647	800	994	1082
55°	532	588	757	951	1043
57.5°	473	532	708	904	998
60°	417	475	658	854	948
62.5°	367	430	611	808	902
65°	317	387	557	763	854
67.5°	272	343	514	715	810
70°	229	303	465	670	766
72.5°	191	263	425	624	719
75°	152	228	386	576	668
77.5°	112	195	340	525	612
80°	79	161	296	466	527
82.5°	49	130	235	319	363
85°	28	88	123	179	218
87.5°	10	29	55	88	108
90°	0	0	0	0	0

(END OF REPORT)