

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: P30609

Luminaire Tested: **R3-WL-D-2T8-1C-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30609
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-D-2T8-1C-UNV-14
Description: CORELITE 1X4 SHALLOW RECESSED FIXTURE WITH WHITE UPPER REFLECTOR AND FROST ROUND PRISMATIC LENS WITH PRISMS RUNNING HORIZONTAL OVER LAMP MOUNTING
Light Source: (2) GE DOUBLE ENDED BI-PIN T8 FLUORESCENT LAMPS 3500K
GE F32T8-SP35-ECO 32 W
Ballast/Driver: GE ELECTRONIC DRIVER
GE-232-MV-N

Summary

Lumens per Lamp: 3100 (2 lamps)
Luminaire Lumens: 5048.4 lumens
Efficiency: 81.4%
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

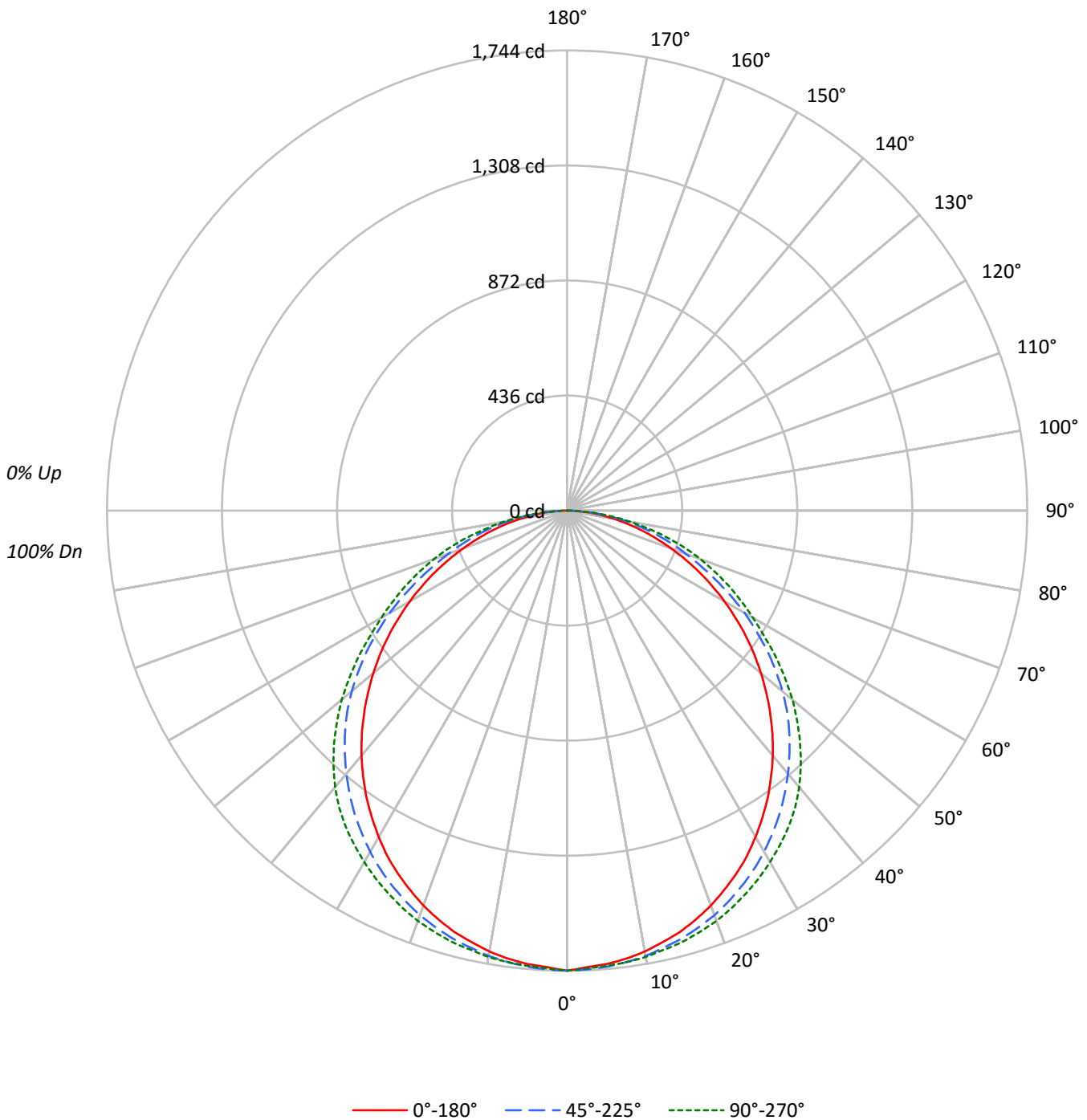
Input Watts (W): 56.3
Input Voltage (V): 120.06
Input Current (A_{in}): 0.4696
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	97	97	97	95	95	95	95	90	90	90	87	87	87	83	83	83	81						81													
1	88	84	81	78	86	83	79	76	79	76	74	76	74	72	73	71	70	68						68													
2	80	73	68	63	78	72	67	62	69	65	61	66	63	59	64	61	58	56						56													
3	73	64	58	52	71	63	57	52	61	55	51	58	54	50	56	52	49	47						47													
4	67	57	50	44	65	56	49	44	54	48	43	52	47	43	50	46	42	40						40													
5	61	51	44	38	60	50	43	38	48	42	37	47	41	37	45	40	37	35						35													
6	57	46	38	33	55	45	38	33	44	37	33	42	37	32	41	36	32	30						30													
7	53	41	34	29	51	41	34	29	40	33	29	38	33	29	37	32	28	27						27													
8	49	38	31	26	48	37	31	26	36	30	26	35	30	26	34	29	25	24						24													
9	46	35	28	23	45	34	28	23	33	27	23	32	27	23	32	27	23	21						21													
10	43	32	26	21	42	32	25	21	31	25	21	30	25	21	29	24	21	19						19													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4693	4693	4693
5°	4660	4687	4679
10°	4637	4683	4694
15°	4605	4678	4714
20°	4562	4674	4739
25°	4507	4659	4757
30°	4437	4639	4779
35°	4356	4612	4806
40°	4258	4574	4806
45°	4144	4532	4753
50°	4015	4463	4668
55°	3875	4340	4527
60°	3708	4182	4381
65°	3521	3954	4304
70°	3297	3761	4225
75°	3067	3618	4055
80°	2805	3425	3750
85°	2563	3057	3211



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	164.8	3.3	2.7
10°-20°	473.3	9.4	7.6
20°-30°	721.6	14.3	11.6
30°-40°	875.5	17.3	14.1
40°-50°	909.5	18.0	14.7
50°-60°	812.5	16.1	13.1
60°-70°	615.2	12.2	9.9
70°-80°	366.5	7.3	5.9
80°-90°	109.2	2.2	1.8
90°-100°	0.4	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°	1359.6	26.9	21.9
0°-40°	2235.1	44.3	36.0
0°-60°	3957.1	78.4	63.8
0°-90°	5048.0	100.0	81.4
90°-120°	0.4	0.0	0.0
90°-150°	0.4	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	5048.4	100.0	81.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1725	1728	1735	1740	1732	164
15°	1653	1661	1679	1694	1692	466
25°	1518	1534	1569	1599	1602	699
35°	1326	1350	1404	1452	1463	829
45°	1089	1120	1191	1241	1249	840
55°	826	859	925	960	965	738
65°	553	586	621	663	676	547
75°	295	313	348	384	390	313
85°	83	89	99	106	104	88
90°	2	2	3	4	3	6
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1744	1744	1744	1744	1744
2.5°	1732	1736	1741	1744	1737
5°	1725	1728	1735	1740	1732
7.5°	1713	1717	1726	1734	1726
10°	1697	1702	1714	1723	1718
12.5°	1675	1682	1696	1709	1704
15°	1653	1661	1679	1694	1692
17.5°	1624	1634	1656	1676	1674
20°	1593	1605	1632	1655	1655
22.5°	1556	1571	1602	1628	1630
25°	1518	1534	1569	1599	1602
27.5°	1476	1493	1533	1567	1572
30°	1428	1448	1493	1531	1538
32.5°	1378	1401	1449	1494	1502
35°	1326	1350	1404	1452	1463
37.5°	1270	1296	1354	1406	1419
40°	1212	1240	1302	1358	1368
42.5°	1152	1181	1247	1302	1311
45°	1089	1120	1191	1241	1249
47.5°	1024	1057	1131	1175	1183
50°	959	992	1066	1107	1115
52.5°	893	925	996	1035	1040
55°	826	859	925	960	965
57.5°	756	791	850	882	885
60°	689	724	777	804	814
62.5°	620	654	699	731	744
65°	553	586	621	663	676
67.5°	485	516	548	594	606
70°	419	446	478	523	537
72.5°	356	379	414	457	466
75°	295	313	348	384	390
77.5°	236	248	284	310	314
80°	181	191	221	239	242
82.5°	129	137	158	171	172
85°	83	89	99	106	104
87.5°	39	41	42	42	39
90°	2	2	3	4	3
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)