

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: P30657

Luminaire Tested: **Z3-WD-2T5-1C-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30657
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-2T5-1C-UNV-22
Description: CORELITE 2x2 SHALLOW RECESSED FIXTURE WITH A WHITE UPPER REFLECTOR AND A CLEAR FLAT LENS WITH A ROUND PERF INLAY OVER LAMP MOUNTING & TWO MICRO ACRYLIC LENS OVER CURVED REFLECTORS
Light Source: (2) PHILIPS DOUBLE ENDED BI-PIN T5 FLUORESCENT LAMPS 4100K PHILIPS F24 T5/841 HO 24W
Ballast/Driver: UNIVERSAL ELECTRONIC BALLAST B224PUNV-C

Summary

Lumens per Lamp: 2000 (2 lamps)
Luminaire Lumens: 3193.0 lumens
Efficiency: 79.8%
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.44 / 1.48
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

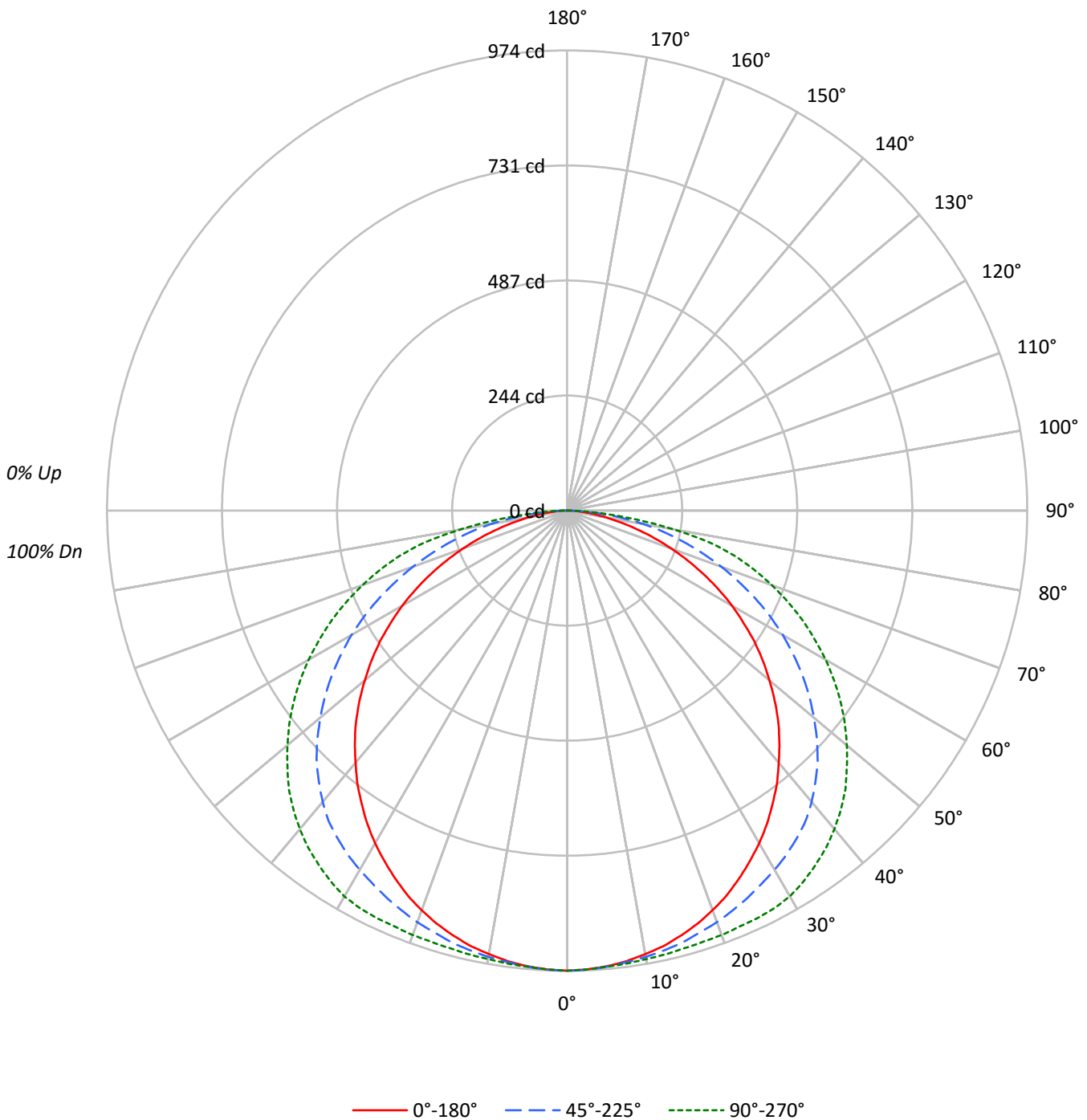
Input Watts (W): 50.2
Input Voltage (V): 120.06
Input Current (Ain): 0.4184
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	95	95	95	93	93	93	93	89	89	89	85	85	85	81	81	81	80
1	86	82	79	75	84	80	77	74	77	74	72	74	72	69	71	69	67	66
2	78	71	65	60	76	69	64	60	67	62	58	64	60	57	61	58	56	54
3	71	62	55	50	69	61	54	49	58	53	48	56	51	47	54	50	47	45
4	65	55	47	42	63	53	47	41	51	45	41	50	44	40	48	43	40	38
5	59	49	41	36	57	48	41	35	46	40	35	44	39	35	43	38	34	32
6	55	43	36	31	53	43	36	31	41	35	30	40	34	30	39	34	30	28
7	50	39	32	27	49	39	32	27	37	31	27	36	31	26	35	30	26	25
8	47	36	29	24	46	35	29	24	34	28	24	33	28	24	32	27	23	22
9	44	33	26	21	43	32	26	21	31	25	21	30	25	21	30	25	21	20
10	41	30	24	19	40	30	24	19	29	23	19	28	23	19	27	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2621	2621	2621
5°	2615	2618	2618
10°	2604	2620	2634
15°	2594	2635	2672
20°	2577	2655	2738
25°	2553	2684	2827
30°	2526	2728	2930
35°	2490	2782	3009
40°	2448	2828	3091
45°	2405	2854	3170
50°	2340	2855	3236
55°	2271	2852	3317
60°	2169	2836	3401
65°	2031	2795	3502
70°	1841	2730	3627
75°	1591	2641	3795
80°	1286	2541	3549
85°	957	2100	2532



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	92.1	2.9	2.3
10°-20°	267.2	8.4	6.7
20°-30°	417.8	13.1	10.4
30°-40°	526.6	16.5	13.2
40°-50°	570.3	17.9	14.3
50°-60°	538.3	16.9	13.5
60°-70°	432.8	13.6	10.8
70°-80°	271.3	8.5	6.8
80°-90°	76.1	2.4	1.9
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°	777.2	24.3	19.4
0°-40°	1303.7	40.8	32.6
0°-60°	2412.3	75.6	60.3
0°-90°	3192.5	100.0	79.8
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°	3193.0	100.0	79.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	968	967	969	970	969	92
15°	931	934	946	956	959	263
25°	860	871	904	939	952	396
35°	758	781	847	900	916	474
45°	632	668	750	811	833	487
55°	484	529	608	681	707	432
65°	319	360	439	518	550	315
75°	153	186	254	335	365	164
85°	31	44	68	83	82	37
90°	2	2	4	4	4	2
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°	974	974	974	974	974
2.5°	972	971	973	973	972
5°	968	967	969	970	969
7.5°	962	961	964	967	967
10°	953	953	959	963	964
12.5°	944	945	953	960	962
15°	931	934	946	956	959
17.5°	917	920	936	952	957
20°	900	906	927	948	956
22.5°	882	889	916	943	953
25°	860	871	904	939	952
27.5°	837	851	891	934	949
30°	813	829	878	927	943
32.5°	787	806	864	915	931
35°	758	781	847	900	916
37.5°	729	756	829	882	900
40°	697	727	805	861	880
42.5°	665	698	778	837	858
45°	632	668	750	811	833
47.5°	596	635	717	781	803
50°	559	601	682	749	773
52.5°	522	566	646	716	741
55°	484	529	608	681	707
57.5°	443	488	568	642	670
60°	403	447	527	603	632
62.5°	361	404	484	561	591
65°	319	360	439	518	550
67.5°	276	316	393	473	506
70°	234	272	347	428	461
72.5°	193	228	300	381	414
75°	153	186	254	335	365
77.5°	116	146	209	282	306
80°	83	109	164	215	229
82.5°	55	75	114	147	151
85°	31	44	68	83	82
87.5°	14	18	28	32	31
90°	2	2	4	4	4
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)