

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: P30655

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30655
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WB-2T5-1C-UNV-22
Description: CORELITE 2x2 SHALLOW RECESSED FIXTURE WITH A WHITE UPPER REFLECTOR AND A CLEAR FLAT PRISMATIC LENS INCLUDING A WHITE BAFFLE WITH PRISMS RUNNING HORIZONTAL IN THE CENTER OF LENS 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: 3157.6 lumens
Efficiency: 78.9%
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.41 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

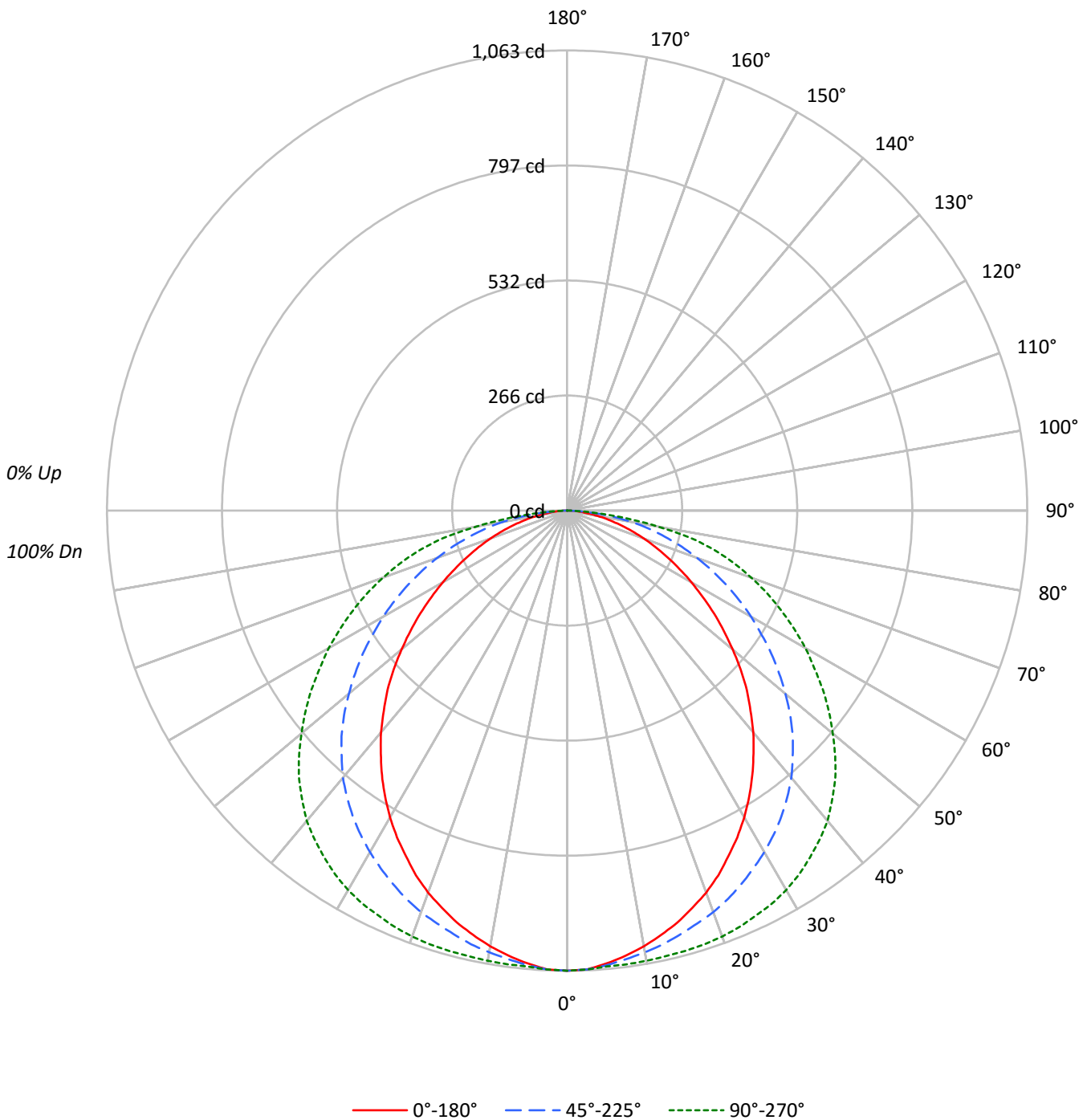
Input Watts (W): 51
Input Voltage (V): 120.06
Input Current (A_{in}): 0.4246
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	94	94	94	92	92	92	92	88	88	88		84	84	84		81	81	81	79
1	86	82	78	75	83	80	77	74	76	74	71		73	71	69		71	69	67	65
2	78	71	65	61	75	69	64	60	67	62	59		64	60	57		62	59	56	54
3	71	62	55	50	69	61	55	50	58	53	49		56	52	48		54	50	47	45
4	65	55	48	42	63	54	47	42	52	46	41		50	45	41		48	44	40	39
5	59	49	42	36	58	48	41	36	46	40	36		45	39	35		43	39	35	33
6	55	44	37	32	53	43	36	31	42	36	31		40	35	31		39	34	31	29
7	51	40	33	28	49	39	32	28	38	32	28		37	31	27		36	31	27	26
8	47	36	29	25	46	36	29	25	35	29	25		34	28	24		33	28	24	23
9	44	33	27	22	43	33	27	22	32	26	22		31	26	22		30	25	22	20
10	41	31	24	20	40	30	24	20	29	24	20		29	24	20		28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2861	2861	2861
5°	2836	2847	2855
10°	2793	2831	2886
15°	2744	2822	2934
20°	2689	2826	2998
25°	2616	2827	3064
30°	2542	2831	3145
35°	2451	2835	3213
40°	2350	2831	3288
45°	2234	2805	3334
50°	2089	2755	3353
55°	1942	2702	3383
60°	1787	2643	3423
65°	1630	2579	3477
70°	1479	2510	3556
75°	1300	2433	3660
80°	1116	2340	3316
85°	865	1822	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	100.0	3.2	2.5
10°-20°	286.8	9.1	7.2
20°-30°	439.7	13.9	11.0
30°-40°	538.6	17.1	13.5
40°-50°	564.5	17.9	14.1
50°-60°	511.2	16.2	12.8
60°-70°	399.9	12.7	10.0
70°-80°	249.9	7.9	6.2
80°-90°	66.8	2.1	1.7
90°-100°	0.1	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°	826.6	26.2	20.7
0°-40°	1365.2	43.2	34.1
0°-60°	2440.8	77.3	61.0
0°-90°	3157.5	100.0	78.9
90°-120°	0.1	0.0	0.0
90°-150°	0.1	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	3157.6	100.0	78.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1050	1049	1054	1055	1057	99
15°	985	991	1013	1038	1053	277
25°	881	899	952	1004	1032	406
35°	746	779	863	940	978	466
45°	587	632	737	832	876	452
55°	414	468	576	678	721	370
65°	256	302	405	507	546	255
75°	125	157	234	322	352	134
85°	28	38	59	72	69	32
90°	1	0	1	1	1	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°	1063	1063	1063	1063	1063
2.5°	1061	1060	1061	1060	1061
5°	1050	1049	1054	1055	1057
7.5°	1037	1038	1045	1053	1057
10°	1022	1024	1036	1048	1056
12.5°	1004	1009	1026	1043	1054
15°	985	991	1013	1038	1053
17.5°	962	971	1000	1032	1051
20°	939	950	987	1026	1047
22.5°	912	926	971	1016	1041
25°	881	899	952	1004	1032
27.5°	851	872	932	992	1024
30°	818	843	911	978	1012
32.5°	783	812	888	961	997
35°	746	779	863	940	978
37.5°	707	744	835	917	958
40°	669	709	806	893	936
42.5°	627	670	771	862	906
45°	587	632	737	832	876
47.5°	544	592	699	796	840
50°	499	550	658	757	801
52.5°	456	509	617	718	762
55°	414	468	576	678	721
57.5°	371	425	532	635	677
60°	332	384	491	594	636
62.5°	293	343	448	551	591
65°	256	302	405	507	546
67.5°	221	263	362	462	500
70°	188	226	319	416	452
72.5°	157	191	277	370	404
75°	125	157	234	322	352
77.5°	98	125	194	270	293
80°	72	94	151	202	214
82.5°	48	65	102	135	138
85°	28	38	59	72	69
87.5°	11	13	20	23	23
90°	1	0	1	1	1
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)