

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: P30654

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30654
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-2T5-1C-UNV-22
Description: CORELITE 2x2 SHALLOW RECESSED FIXTURE WITH A WHITE UPPER REFLECTOR AND A FROST FLAT PRISMATIC LENS 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: 3381.1 lumens
Efficiency: 84.5%
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.39 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

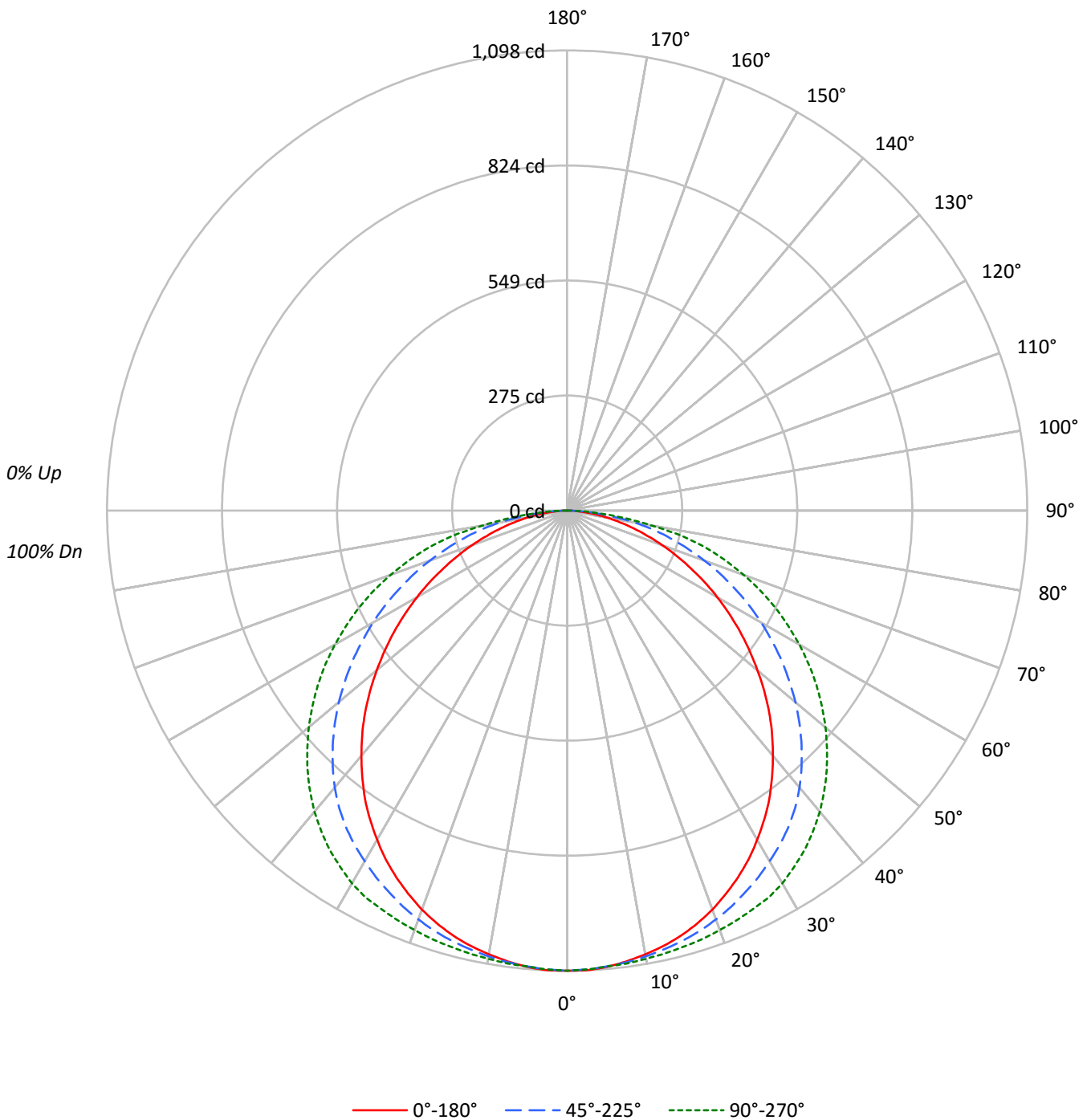
Input Watts (W): 50.3
Input Voltage (V): 120.06
Input Current (Ain): 0.4171
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	98	98	98	98	94	94	94		90	90	90		86	86	86	85
1	92	87	84	80	89	85	82	79	82	79	76		78	76	74		75	74	72	70
2	83	76	70	65	81	74	69	64	71	66	62		68	64	61		66	62	60	58
3	75	66	59	53	73	65	58	53	62	57	52		60	55	51		58	54	50	48
4	69	58	51	45	67	57	50	45	55	49	44		53	48	43		51	47	43	41
5	63	52	44	39	61	51	44	38	49	43	38		48	42	37		46	41	37	35
6	58	47	39	34	57	46	39	33	44	38	33		43	37	33		42	36	32	31
7	54	42	35	30	53	42	34	29	40	34	29		39	33	29		38	33	29	27
8	50	39	31	26	49	38	31	26	37	31	26		36	30	26		35	30	26	24
9	47	35	28	24	46	35	28	23	34	28	23		33	27	23		32	27	23	22
10	44	33	26	21	43	32	26	21	31	25	21		31	25	21		30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2955	2955	2955
5°	2952	2950	2950
10°	2937	2951	2967
15°	2925	2961	3000
20°	2901	2972	3050
25°	2865	2984	3115
30°	2818	3002	3191
35°	2763	3026	3246
40°	2684	3032	3295
45°	2595	3010	3334
50°	2483	2977	3370
55°	2365	2932	3406
60°	2228	2879	3444
65°	2069	2814	3489
70°	1904	2746	3525
75°	1705	2651	3566
80°	1488	2526	3161
85°	1235	2038	2408



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	103.9	3.1	2.6
10°-20°	300.4	8.9	7.5
20°-30°	464.3	13.7	11.6
30°-40°	573.3	17.0	14.3
40°-50°	604.8	17.9	15.1
50°-60°	554.8	16.4	13.9
60°-70°	436.0	12.9	10.9
70°-80°	268.4	7.9	6.7
80°-90°	75.1	2.2	1.9
90°-100°	0.2	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°	868.5	25.7	21.7
0°-40°	1441.8	42.6	36.0
0°-60°	2601.4	76.9	65.0
0°-90°	3380.9	100.0	84.5
90°-120°	0.2	0.0	0.0
90°-150°	0.2	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	3381.1	100.0	84.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1093	1091	1092	1092	1092	104
15°	1050	1053	1063	1073	1077	296
25°	965	975	1005	1037	1049	444
35°	841	861	921	971	988	525
45°	682	714	791	854	876	525
55°	504	545	625	700	726	450
65°	325	363	442	520	548	323
75°	164	193	255	320	343	175
85°	40	50	66	77	78	44
90°	2	1	1	2	2	3
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°	1098	1098	1098	1098	1098
2.5°	1098	1096	1096	1096	1096
5°	1093	1091	1092	1092	1092
7.5°	1085	1085	1087	1089	1090
10°	1075	1076	1080	1085	1086
12.5°	1064	1065	1072	1079	1082
15°	1050	1053	1063	1073	1077
17.5°	1033	1037	1052	1066	1072
20°	1013	1019	1038	1058	1065
22.5°	990	999	1023	1048	1058
25°	965	975	1005	1037	1049
27.5°	938	950	987	1026	1041
30°	907	923	966	1012	1027
32.5°	875	893	945	994	1008
35°	841	861	921	971	988
37.5°	803	827	894	946	964
40°	764	791	863	918	938
42.5°	724	753	828	888	908
45°	682	714	791	854	876
47.5°	638	673	752	818	841
50°	593	631	711	780	805
52.5°	548	588	668	740	766
55°	504	545	625	700	726
57.5°	458	500	580	657	684
60°	414	454	535	613	640
62.5°	370	409	489	567	594
65°	325	363	442	520	548
67.5°	283	319	396	472	499
70°	242	276	349	422	448
72.5°	201	233	301	371	396
75°	164	193	255	320	343
77.5°	129	155	210	265	282
80°	96	118	163	196	204
82.5°	66	83	111	134	138
85°	40	50	66	77	78
87.5°	19	22	27	31	32
90°	2	1	1	2	2
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)