

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: P31384

Luminaire Tested: **E3-WL-3T8-1C-UNV-22-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P31384
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E3-WL-3T8-1C-UNV-22-T1
Description: CORELITE 2X2 CLASS E RECESSED FIXTURE WITH FROSTED ROUND PRISMATIC MIDDLE LENS WITH PRISMS FACING UP RUNNING PARALLEL TO LAMPS AND TWO FROSTED LENS ON SIDES. SOCKET SPACING 2.5"
Light Source: (3) BIPIN T8 DOUBLE ENDED LINEAR FLUORESCENT LAMP 4100K PHILIPS F17T8/SPX41/ECO
Ballast/Driver: (2) GE ELECTRONIC BALLAST GE232MAX-N-ULTRA

Summary

Lumens per Lamp: 1300 (3 lamps)
Luminaire Lumens: 3064.1 lumens
Efficiency: 78.6%
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.36 / 1.4
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')
CIE Type: Direct

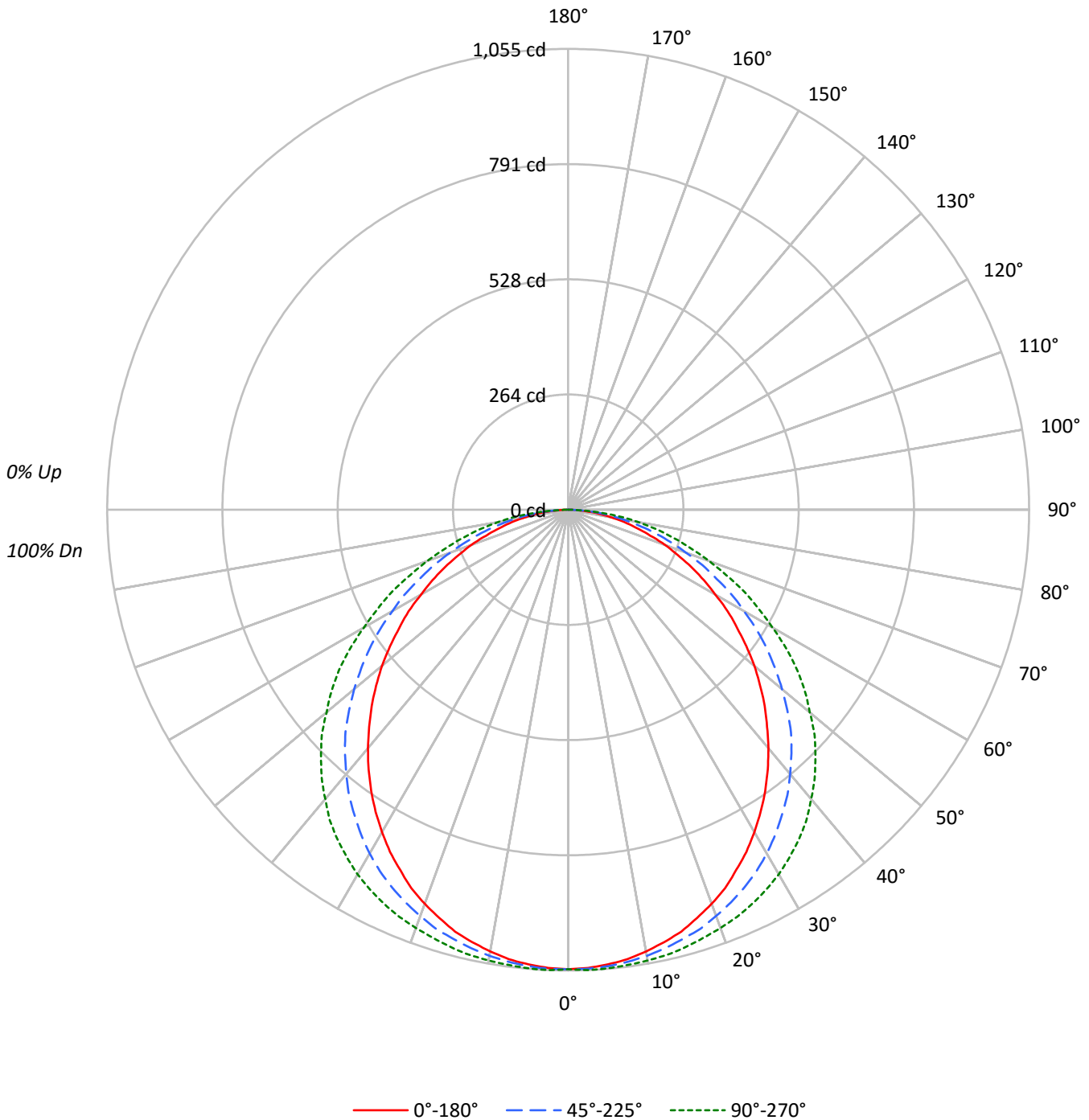
Input Watts (W): 45.8
Input Voltage (V): 120.03
Input Current (A_{in}): 0.3830
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	91	91	91	87	87	87	84	84	84	80	80	80	79
1	85	82	78	75	83	80	77	74	76	74	71	73	71	69	70	69	67	66
2	78	71	66	61	75	69	64	60	67	62	59	64	61	57	62	59	56	54
3	71	62	56	51	69	61	55	50	59	53	49	56	52	48	54	51	48	46
4	65	55	48	43	63	54	48	42	52	46	42	50	45	41	48	44	41	39
5	59	49	42	37	58	48	42	37	47	41	36	45	40	36	44	39	35	34
6	55	44	37	32	53	43	37	32	42	36	32	41	35	31	39	35	31	29
7	51	40	33	28	49	39	33	28	38	32	28	37	32	28	36	31	28	26
8	47	37	30	25	46	36	30	25	35	29	25	34	29	25	33	28	25	23
9	44	34	27	23	43	33	27	23	32	26	22	31	26	22	31	26	22	21
10	41	31	25	21	40	31	25	20	30	24	20	29	24	20	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3611	3611	3611
5°	3601	3614	3632
10°	3580	3614	3653
15°	3554	3614	3685
20°	3507	3616	3722
25°	3447	3613	3772
30°	3377	3603	3821
35°	3294	3574	3859
40°	3195	3540	3876
45°	3087	3500	3883
50°	2969	3412	3856
55°	2825	3321	3830
60°	2671	3192	3707
65°	2526	3046	3614
70°	2369	2880	3442
75°	2162	2719	3316
80°	1957	2491	3183
85°	1654	2245	2717



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	99.8	3.3	2.6
10°-20°	287.4	9.4	7.4
20°-30°	439.5	14.3	11.3
30°-40°	533.7	17.4	13.7
40°-50°	553.6	18.1	14.2
50°-60°	495.4	16.2	12.7
60°-70°	372.8	12.2	9.6
70°-80°	218.2	7.1	5.6
80°-90°	63.8	2.1	1.6
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°	826.7	27.0	21.2
0°-40°	1360.4	44.4	34.9
0°-60°	2409.3	78.6	61.8
0°-90°	3064.1	100.0	78.6
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°	3064.1	100.0	78.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1045	1046	1049	1053	1054	99
15°	1000	1005	1017	1031	1037	282
25°	910	923	954	983	996	419
35°	786	806	853	900	921	491
45°	636	661	721	774	800	490
55°	472	498	555	612	640	423
65°	311	330	375	422	445	308
75°	163	176	205	235	250	174
85°	42	46	57	68	69	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052	1052	1052	1052	1052
2.5°	1050	1050	1052	1054	1055
5°	1045	1046	1049	1053	1054
7.5°	1038	1040	1044	1050	1051
10°	1027	1031	1037	1045	1048
12.5°	1014	1020	1028	1039	1044
15°	1000	1005	1017	1031	1037
17.5°	980	989	1006	1022	1028
20°	960	968	990	1010	1019
22.5°	938	947	973	998	1009
25°	910	923	954	983	996
27.5°	883	898	933	967	981
30°	852	869	909	946	964
32.5°	820	840	882	925	943
35°	786	806	853	900	921
37.5°	750	772	824	873	896
40°	713	736	790	845	865
42.5°	674	699	756	812	835
45°	636	661	721	774	800
47.5°	596	619	680	738	765
50°	556	578	639	698	722
52.5°	514	537	597	657	683
55°	472	498	555	612	640
57.5°	433	455	511	566	592
60°	389	413	465	517	540
62.5°	350	372	423	471	492
65°	311	330	375	422	445
67.5°	271	290	333	375	392
70°	236	248	287	328	343
72.5°	197	212	245	282	295
75°	163	176	205	235	250
77.5°	132	141	164	193	207
80°	99	107	126	152	161
82.5°	71	76	91	111	120
85°	42	46	57	68	69
87.5°	17	18	21	21	23
90°	0	0	0	0	0

(END OF REPORT)