

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: ITL67611

Luminaire Tested: **Z3-WD-2T5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67611
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-2T5-1C-UNV-24-T1
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, TWO FORMED WHITE PAINTED OUTBOARD REFLECTORS, ONE EXTRUDED FROSTED PLASTIC DIFFUSER BELOW EACH REFLECTOR, EXTRUDED CLEAR PLASTIC LENS BELOW LAMPS WITH FROSTED MICRO-LINEAR PRISMATIC SIDES AND FROSTED PLASTIC OVERLAY WITH WHITE GRID PATTERN ON TOP SURFACE, LENS PRISMS OUT AND PARALLEL WITH LAMPS, OVERLAY FROSTED SIDE DOWN, DIFFUSERS FROSTED BOTH SIDES.
Light Source: TWO 54-WATT T-5 SYLVANIA FP54/841/HO/ECO LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B254PUNV-D

Summary

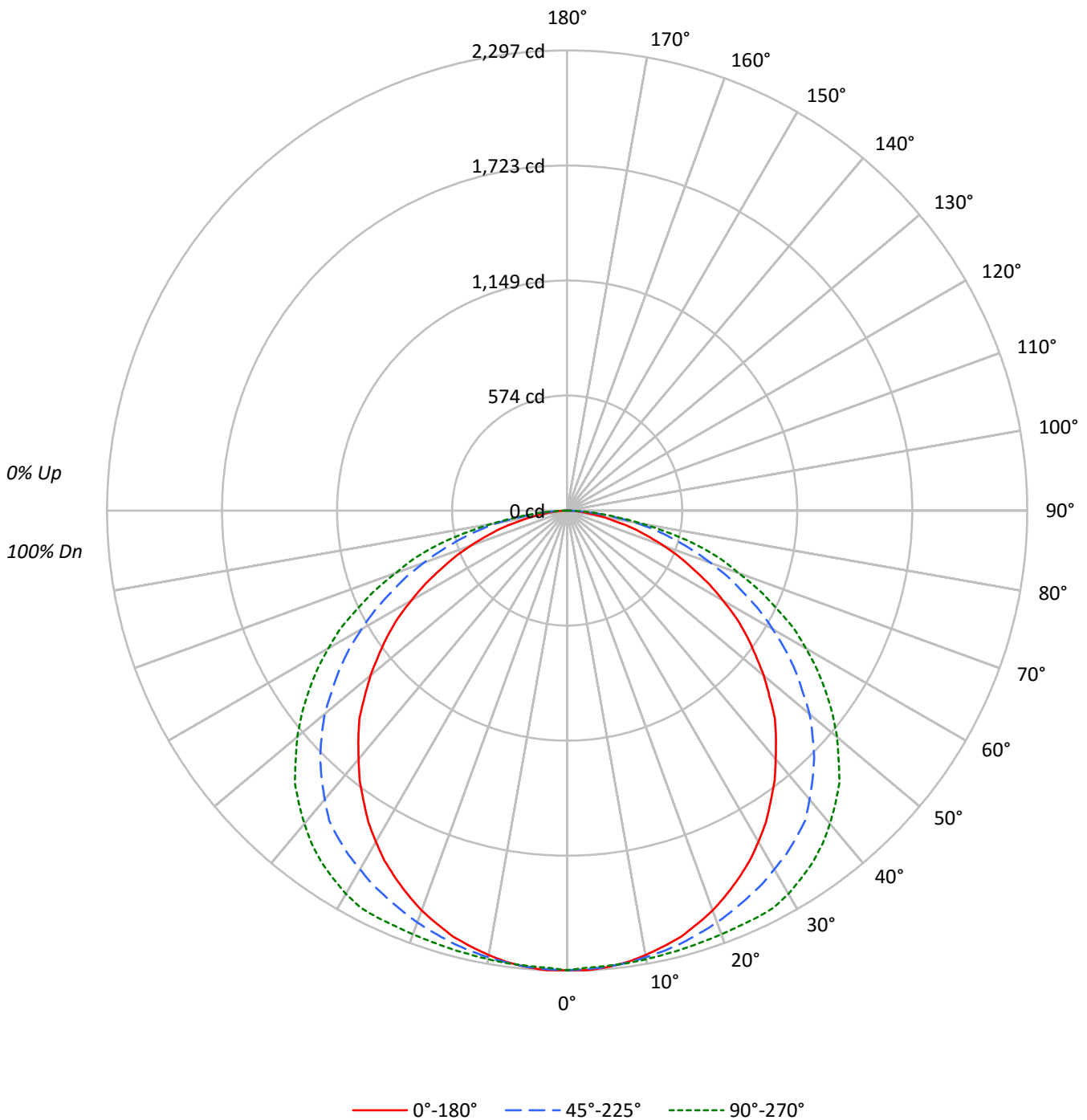
Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 7268.6 lumens
Efficiency: 81.7%
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.43 / 1.47
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (A_{in}): NR
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	0																
RCR																																					
0	97	97	97	97	95	95	95	95	91	91	91	87	87	87	83	83	83	82				82															
1	89	84	81	78	86	83	79	76	79	76	74	76	74	72	73	71	69	68				68															
2	80	73	67	63	78	72	66	62	69	64	60	66	62	59	64	60	58	56				56															
3	73	64	57	52	71	63	56	51	60	55	50	58	53	49	56	52	48	47				47															
4	67	56	49	43	65	55	48	43	53	47	43	51	46	42	50	45	41	40				40															
5	61	50	43	37	59	49	42	37	48	41	37	46	40	36	44	40	36	34				34															
6	56	45	38	32	55	44	37	32	43	37	32	41	36	32	40	35	31	30				30															
7	52	41	33	28	51	40	33	28	39	33	28	38	32	28	37	31	28	26				26															
8	48	37	30	25	47	37	30	25	35	29	25	34	29	25	33	28	25	23				23															
9	45	34	27	23	44	34	27	23	33	27	22	32	26	22	31	26	22	21				21															
10	42	31	25	20	41	31	25	20	30	24	20	29	24	20	29	24	20	19				19															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3518	3518	3518
5°	3522	3519	3511
10°	3508	3525	3541
15°	3494	3544	3593
20°	3466	3571	3674
25°	3426	3607	3792
30°	3380	3662	3912
35°	3315	3733	4006
40°	3241	3768	4086
45°	3179	3782	4168
50°	3056	3769	4194
55°	2933	3716	4214
60°	2754	3638	4220
65°	2533	3531	4177
70°	2291	3403	4071
75°	2015	3271	4011
80°	1572	3064	3356
85°	1161	2287	2463



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	217.5	3.0	2.4
10°-20°	630.9	8.7	7.1
20°-30°	984.8	13.5	11.1
30°-40°	1234.6	17.0	13.9
40°-50°	1322.6	18.2	14.9
50°-60°	1221.8	16.8	13.7
60°-70°	947.9	13.0	10.7
70°-80°	562.3	7.7	6.3
80°-90°	146.1	2.0	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°	1833.2	25.2	20.6
0°-40°	3067.9	42.2	34.5
0°-60°	5612.2	77.2	63.1
0°-90°	7268.6	100.0	81.7
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°	7268.6	100.0	81.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2294	2294	2294	2294	2294	
5°	2288	2288	2286	2284	2281	217
15°	2201	2209	2232	2255	2263	620
25°	2025	2056	2132	2210	2241	933
35°	1771	1843	1994	2105	2140	1109
45°	1466	1559	1744	1877	1922	1125
55°	1097	1220	1390	1526	1576	978
65°	698	818	973	1115	1151	696
75°	340	431	552	658	677	356
85°	66	113	130	139	140	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2294	2294	2294	2294	2294
2.5°	2297	2296	2291	2287	2284
5°	2288	2288	2286	2284	2281
7.5°	2274	2275	2277	2280	2279
10°	2253	2258	2264	2273	2274
12.5°	2228	2234	2250	2264	2268
15°	2201	2209	2232	2255	2263
17.5°	2163	2178	2210	2245	2256
20°	2124	2141	2188	2234	2251
22.5°	2076	2102	2160	2222	2245
25°	2025	2056	2132	2210	2241
27.5°	1972	2010	2104	2200	2234
30°	1909	1956	2068	2179	2209
32.5°	1846	1902	2034	2147	2176
35°	1771	1843	1994	2105	2140
37.5°	1701	1772	1951	2055	2095
40°	1619	1706	1882	2007	2041
42.5°	1543	1631	1814	1941	1982
45°	1466	1559	1744	1877	1922
47.5°	1369	1486	1661	1801	1837
50°	1281	1396	1580	1712	1758
52.5°	1185	1317	1480	1628	1670
55°	1097	1220	1390	1526	1576
57.5°	1003	1124	1291	1430	1481
60°	898	1017	1186	1326	1376
62.5°	803	919	1085	1222	1276
65°	698	818	973	1115	1151
67.5°	609	715	872	996	1038
70°	511	624	759	883	908
72.5°	419	520	656	757	805
75°	340	431	552	658	677
77.5°	247	346	448	532	529
80°	178	261	347	378	380
82.5°	115	186	222	258	246
85°	66	113	130	139	140
87.5°	26	44	49	53	51
90°	0	0	0	0	0

(END OF REPORT)