

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: 20544

Luminaire Tested: **IQ-WO-2T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20544
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WO-2T8
Description: DIRECT/INDIRECT SUSPENDED LUMINAIRE WITH WHITE INTERIOR WITH WHITE PLASTIC LENS
Light Source: TWO PHILIPS 32 WATT T8 LAMPS

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

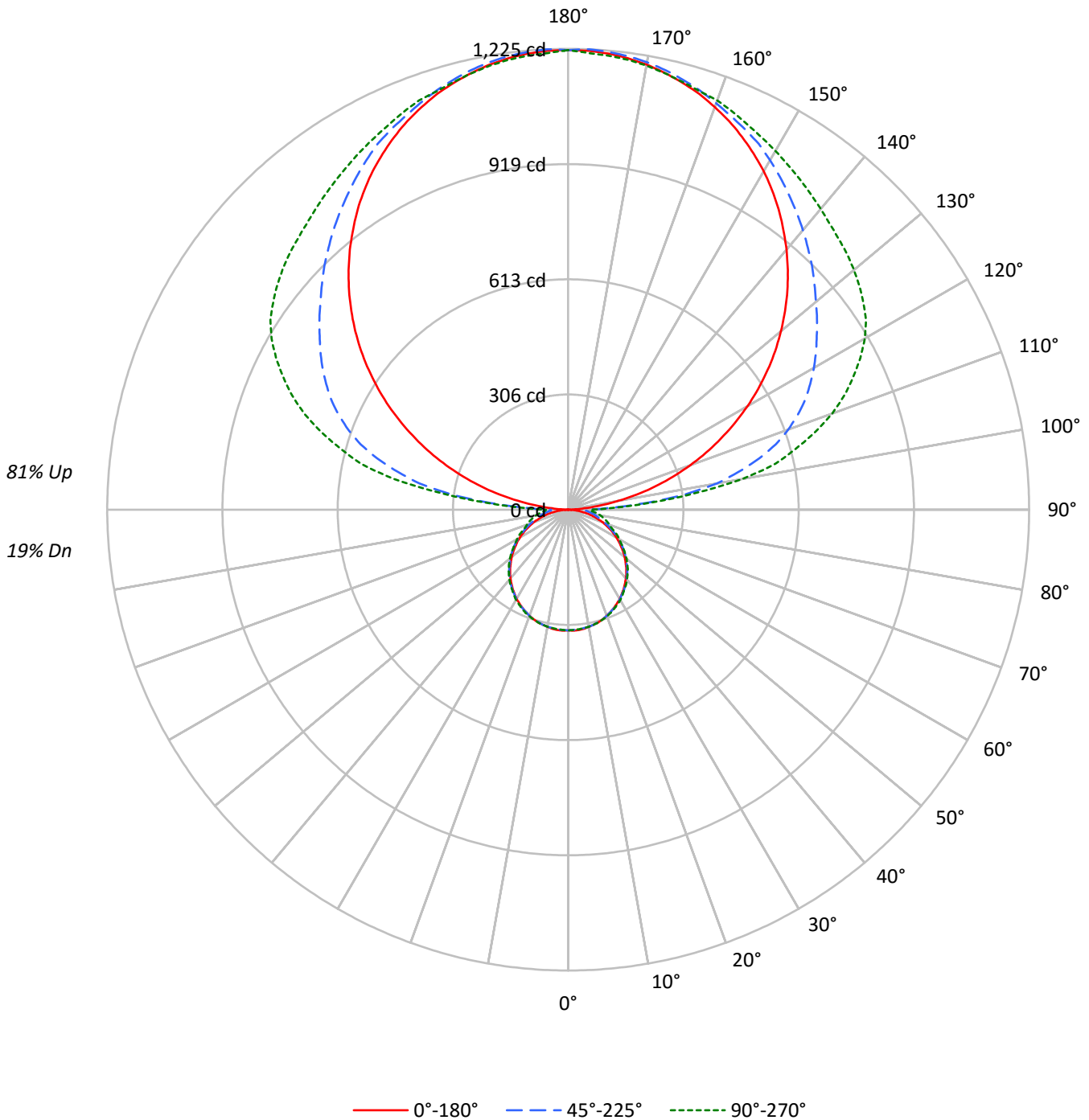
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 5403.0 lumens
Efficiency: 90.0%
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Indirect

Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): 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									70									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	50	30	10	0														
RCR																																						
0	90	90	90	90	79	79	79	79	59	59	59	41	41	41	25	25	25	17																				
1	81	78	74	71	72	68	66	63	51	50	48	36	35	34	21	21	20	14																				
2	74	67	62	58	65	60	55	51	45	42	39	31	29	28	18	18	17	11																				
3	67	59	53	48	59	52	47	43	39	36	33	27	25	23	16	15	14	9																				
4	61	52	45	40	54	46	40	36	35	31	28	24	22	20	14	13	12	8																				
5	56	46	39	34	49	41	35	30	31	27	24	22	19	17	13	11	10	7																				
6	52	41	34	29	45	37	31	26	28	23	20	19	17	15	12	10	9	6																				
7	48	37	30	25	42	33	27	23	25	21	18	18	15	13	11	9	8	5																				
8	44	33	27	22	39	30	24	20	23	18	16	16	13	11	10	8	7	5																				
9	41	30	24	19	36	27	21	18	21	17	14	15	12	10	9	7	6	4																				
10	38	28	21	17	33	25	19	16	19	15	12	13	11	9	8	7	6	4																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2939	2939	2939
5°	2949	2899	2888
10°	2934	2865	2845
15°	2929	2821	2802
20°	2909	2783	2753
25°	2887	2734	2697
30°	2870	2683	2645
35°	2843	2634	2569
40°	2816	2571	2511
45°	2779	2513	2442
50°	2740	2435	2358
55°	2686	2356	2250
60°	2640	2252	2164
65°	2573	2127	2093
70°	2488	2023	2059
75°	2346	1927	2133
80°	2096	2004	2210
85°	1639	2117	2319



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	30.4	0.6	0.5
10°-20°	87.3	1.6	1.5
20°-30°	133.1	2.5	2.2
30°-40°	161.8	3.0	2.7
40°-50°	170.4	3.2	2.8
50°-60°	157.8	2.9	2.6
60°-70°	127.9	2.4	2.1
70°-80°	90.2	1.7	1.5
80°-90°	54.2	1.0	0.9
90°-100°	203.6	3.8	3.4
100°-110°	503.6	9.3	8.4
110°-120°	655.9	12.1	10.9
120°-130°	717.3	13.3	12.0
130°-140°	708.1	13.1	11.8
140°-150°	639.6	11.8	10.7
150°-160°	513.1	9.5	8.6
160°-170°	333.0	6.2	5.5
170°-180°	115.8	2.1	1.9
0°-30°	250.8	4.6	4.2
0°-40°	412.5	7.6	6.9
0°-60°	740.7	13.7	12.3
0°-90°	1013.0	18.7	16.9
90°-120°	1363.1	25.2	22.7
90°-150°	3428.1	63.4	57.1
90°-180°	4390.0	81.3	73.2
0°-180°	5403.0	100.0	90.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	321	321	321	321	321	
5°	321	320	319	319	319	30
15°	310	309	309	310	310	87
25°	288	288	288	290	290	133
35°	257	258	259	260	260	161
45°	218	218	222	223	224	168
55°	172	174	178	178	178	154
65°	123	125	128	134	135	121
75°	70	72	84	98	102	74
85°	18	32	53	65	69	20
90°	0	24	46	58	59	3
95°	43	156	207	223	226	56
105°	240	358	525	602	626	253
115°	448	511	696	804	836	443
125°	647	678	806	920	958	578
135°	824	841	916	989	1017	635
145°	975	978	1022	1058	1073	610
155°	1094	1095	1115	1126	1129	504
165°	1175	1175	1183	1179	1177	332
175°	1217	1217	1222	1216	1212	116
180°	1222	1222	1222	1222	1222	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	320.7	320.7	320.7	320.7	320.7
2.5°	321.8	320.0	319.9	320.1	319.9
5°	321.0	319.7	319.1	319.2	319.1
7.5°	319.5	317.4	317.5	318.0	317.7
10°	316.2	314.9	315.7	315.4	315.8
12.5°	313.3	312.3	313.0	312.3	313.1
15°	310.0	308.7	308.8	309.8	310.1
17.5°	305.2	304.8	304.9	305.5	305.8
20°	300.0	299.3	300.3	300.2	301.5
22.5°	294.2	293.6	293.9	295.9	296.7
25°	287.7	287.7	288.5	289.9	290.0
27.5°	280.9	281.3	281.9	283.5	283.7
30°	273.7	273.5	274.6	275.7	277.0
32.5°	265.2	265.4	266.2	267.6	268.7
35°	257.0	257.5	259.2	259.7	259.7
37.5°	247.4	248.0	249.8	251.7	252.0
40°	238.6	238.1	240.9	242.5	242.9
42.5°	228.4	228.4	231.8	232.9	233.3
45°	217.9	218.4	221.8	223.3	223.7
47.5°	206.6	207.9	210.5	212.3	213.0
50°	195.9	197.1	200.1	201.6	202.3
52.5°	184.2	185.4	189.3	190.7	190.4
55°	172.0	174.1	177.8	177.9	178.5
57.5°	160.6	162.4	166.3	166.2	167.0
60°	148.1	150.2	153.5	154.8	156.4
62.5°	135.6	137.5	141.6	144.6	147.0
65°	122.8	125.4	128.4	134.1	135.3
67.5°	109.0	112.6	117.3	121.6	123.5
70°	97.0	99.7	105.4	112.1	116.4
72.5°	82.5	86.0	94.4	104.1	109.4
75°	70.3	72.0	83.7	97.5	102.4
77.5°	57.0	60.3	76.3	90.0	94.1
80°	43.4	49.0	69.0	82.3	86.4
82.5°	31.1	40.5	61.2	73.2	78.1
85°	18.5	31.9	53.3	65.1	69.3
87.5°	5.9	25.1	45.5	56.4	60.6
90°	0.0	24.4	45.7	57.9	59.3
92.5°	13.4	80.5	109.4	122.2	124.4
95°	43.2	155.8	207.4	223.3	225.8
97.5°	87.2	221.6	314.8	340.1	344.0
100°	136.0	279.0	400.9	457.4	469.3
102.5°	187.0	320.8	463.2	541.9	564.5
105°	239.6	358.4	524.9	601.6	626.1
107.5°	291.4	396.5	578.2	664.3	688.8
110°	344.4	434.0	621.9	720.1	746.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	396.2	470.5	660.5	764.6	794.1
115°	448.2	511.1	695.7	803.5	836.1
117.5°	499.3	552.0	724.9	843.5	875.3
120°	550.0	594.1	754.0	874.3	910.1
122.5°	598.7	635.2	780.5	898.1	938.3
125°	646.9	678.0	806.2	919.5	957.6
127.5°	693.4	718.7	833.5	940.1	975.8
130°	738.4	758.9	859.4	956.6	991.3
132.5°	781.7	800.3	887.7	973.0	1005.3
135°	823.5	841.2	916.1	988.6	1017.0
137.5°	863.7	877.8	943.0	1005.6	1029.5
140°	902.4	911.2	970.3	1023.6	1043.9
142.5°	939.1	944.7	996.6	1040.7	1058.3
145°	975.1	977.7	1022.3	1058.5	1072.7
147.5°	1008.1	1010.1	1048.0	1075.6	1086.9
150°	1039.0	1041.2	1072.7	1093.6	1101.3
152.5°	1067.2	1068.7	1096.2	1109.6	1115.1
155°	1093.5	1095.1	1114.8	1126.1	1129.0
157.5°	1117.9	1118.9	1131.7	1143.8	1144.1
160°	1138.9	1140.5	1149.9	1155.6	1157.9
162.5°	1158.9	1159.2	1167.4	1166.4	1165.7
165°	1174.7	1175.4	1182.8	1179.3	1176.7
167.5°	1189.0	1189.5	1196.5	1191.4	1188.4
170°	1201.5	1201.3	1208.0	1203.0	1198.5
172.5°	1210.8	1210.4	1216.0	1210.9	1206.6
175°	1217.2	1217.3	1221.8	1215.5	1211.6
177.5°	1221.0	1220.9	1225.4	1219.4	1215.3
180°	1221.8	1221.8	1221.8	1221.8	1221.8

(END OF REPORT)