

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: ITL63566

Luminaire Tested: **NB-SM-2T8-1C-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL63566
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SM-2T8-1C-120
Description: EXTRUDED METAL HOUSING WITH UNFINISHED METAL END PLATES, FORMED WHITE PAINTED METAL REFLECTORS, ONE FORMED SEMI-SPECULAR METAL REFLECTOR INSERT ON EACH SIDE, CLEAR FLAT MICRO-LINEAR PRISMATIC PLASTIC LENS, LENS PRISMS DOWN AND PARALLEL WITH LAMPS, OPEN TOP.
Light Source: TWO 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B232IUNVHP-B

Summary

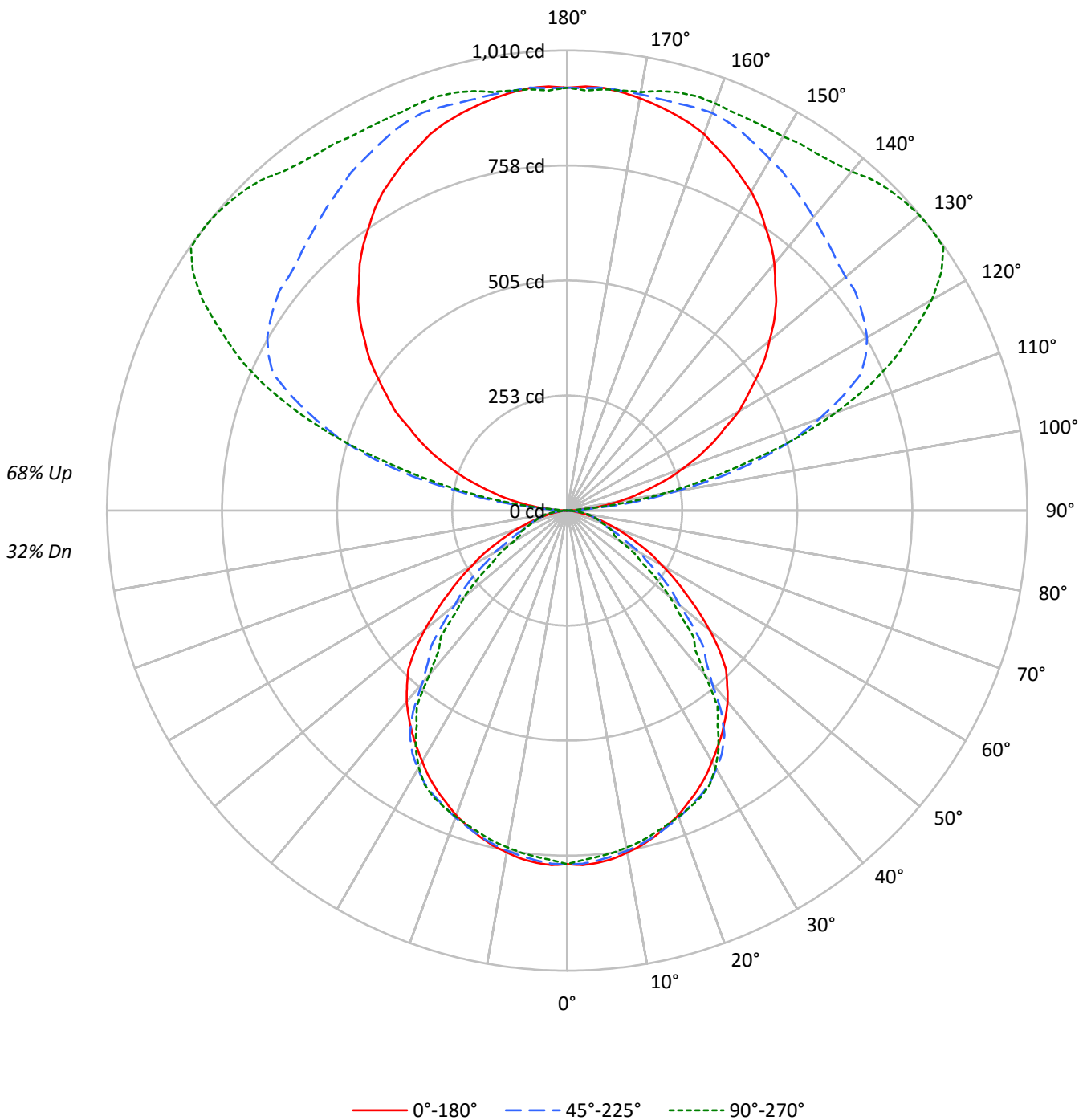
Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 5506.8 lumens
Efficiency: 93.3%
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.26
Luminous Opening: Rectangular (W 0.61' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55
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									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	96	96	96	96	86	86	86	86	68	68	68	52	52	52	37	37	37	30																				
1	88	84	81	78	79	76	73	70	60	58	57	46	45	44	33	32	32	26																				
2	80	74	68	64	72	67	62	58	53	50	47	41	39	37	29	28	27	22																				
3	73	65	59	54	66	59	53	49	47	43	40	36	34	32	26	25	24	19																				
4	67	58	51	45	60	52	46	42	42	38	34	33	30	27	24	22	21	17																				
5	62	51	44	39	55	47	41	36	38	33	30	29	26	24	22	20	18	15																				
6	57	46	39	34	51	42	36	31	34	29	26	27	23	21	20	18	16	13																				
7	53	42	35	30	47	38	32	27	31	26	23	24	21	19	18	16	14	12																				
8	49	38	31	26	44	34	28	24	28	24	20	22	19	17	17	14	13	10																				
9	45	34	28	23	41	31	26	22	26	21	18	20	17	15	15	13	12	10																				
10	42	31	25	21	38	29	23	19	24	19	16	19	16	13	14	12	11	9																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3407	3407	3407
5°	3420	3398	3362
10°	3397	3379	3348
15°	3368	3363	3336
20°	3326	3350	3340
25°	3279	3347	3362
30°	3224	3320	3300
35°	3183	3226	3087
40°	3140	2831	2693
45°	3061	2626	2434
50°	2786	2192	2008
55°	2434	1921	1538
60°	2107	1624	1194
65°	1787	1267	1174
70°	1450	1130	1065
75°	1103	1086	1103
80°	758	1087	1138
85°	453	957	907



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	73.1	1.3	1.2
10°-20°	208.4	3.8	3.5
20°-30°	316.9	5.8	5.4
30°-40°	369.2	6.7	6.3
40°-50°	327.6	5.9	5.6
50°-60°	230.9	4.2	3.9
60°-70°	133.5	2.4	2.3
70°-80°	69.9	1.3	1.2
80°-90°	19.5	0.4	0.3
90°-100°	88.5	1.6	1.5
100°-110°	400.8	7.3	6.8
110°-120°	626.9	11.4	10.6
120°-130°	690.7	12.5	11.7
130°-140°	638.7	11.6	10.8
140°-150°	543.7	9.9	9.2
150°-160°	417.5	7.6	7.1
160°-170°	262.3	4.8	4.4
170°-180°	88.7	1.6	1.5
0°-30°	598.4	10.9	10.1
0°-40°	967.6	17.6	16.4
0°-60°	1526.2	27.7	25.9
0°-90°	1749.1	31.8	29.6
90°-120°	1116.2	20.3	18.9
90°-150°	2989.2	54.3	50.7
90°-180°	3758.0	68.2	63.7
0°-180°	5506.8	100.0	93.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	776	775	771	766	763	74
15°	741	741	740	735	734	209
25°	677	684	691	694	694	312
35°	594	611	602	588	576	371
45°	493	461	423	387	392	375
55°	318	293	251	222	201	287
65°	172	161	122	108	113	173
75°	65	64	64	66	65	71
85°	9	19	19	20	18	11
90°	0	0	0	0	0	2
95°	45	101	62	48	30	52
105°	188	365	440	419	411	202
115°	353	491	712	777	795	348
125°	507	609	785	949	1008	454
135°	649	722	817	944	997	499
145°	759	813	866	926	956	476
155°	845	870	914	935	947	390
165°	902	911	926	943	950	255
175°	931	934	932	928	928	88
180°	928	928	928	928	928	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776	776	776	776	776
2.5°	779	779	776	771	768
5°	776	775	771	766	763
7.5°	771	768	765	760	758
10°	762	761	758	754	751
12.5°	753	751	750	744	744
15°	741	741	740	735	734
17.5°	726	729	728	726	724
20°	712	715	717	714	715
22.5°	694	700	703	705	705
25°	677	684	691	694	694
27.5°	658	668	676	678	678
30°	636	650	655	654	651
32.5°	615	632	632	623	619
35°	594	611	602	588	576
37.5°	571	580	555	538	542
40°	548	546	494	502	470
42.5°	520	500	452	429	417
45°	493	461	423	387	392
47.5°	453	422	372	359	332
50°	408	373	321	298	294
52.5°	363	330	289	268	249
55°	318	293	251	222	201
57.5°	280	260	208	184	176
60°	240	220	185	150	136
62.5°	209	186	146	126	115
65°	172	161	122	108	113
67.5°	142	129	94	102	97
70°	113	107	88	90	83
72.5°	87	84	76	77	73
75°	65	64	64	66	65
77.5°	45	51	53	56	56
80°	30	38	43	45	45
82.5°	17	29	30	32	30
85°	9	19	19	20	18
87.5°	1	5	5	6	5
90°	0	0	0	0	0
92.5°	17	25	7	7	6
95°	45	101	62	48	30
97.5°	80	179	153	127	120
100°	114	257	240	229	211
102.5°	152	318	347	325	309
105°	188	365	440	419	411
107.5°	232	404	522	534	526
110°	271	438	589	628	627



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	313	471	654	713	718
115°	353	491	712	777	795
117.5°	389	516	739	840	858
120°	435	551	760	903	924
122.5°	469	577	773	940	974
125°	507	609	785	949	1008
127.5°	547	639	795	952	1010
130°	580	669	798	951	1009
132.5°	616	696	805	949	1004
135°	649	722	817	944	997
137.5°	676	749	828	933	987
140°	708	772	841	927	971
142.5°	735	797	854	928	962
145°	759	813	866	926	956
147.5°	786	831	881	928	954
150°	808	844	891	928	948
152.5°	826	856	902	931	947
155°	845	870	914	935	947
157.5°	861	881	923	938	947
160°	879	895	929	944	951
162.5°	892	904	928	948	953
165°	902	911	926	943	950
167.5°	911	919	926	935	943
170°	919	925	928	930	933
172.5°	926	930	929	928	930
175°	931	934	932	928	928
177.5°	932	932	928	924	923
180°	928	928	928	928	928

(END OF REPORT)