

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: ITL63565

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL63565
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SM-1T8-1C-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 LAMP, OPEN TOP.
Light Source: ONE 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B232IUNVHP-B

Summary

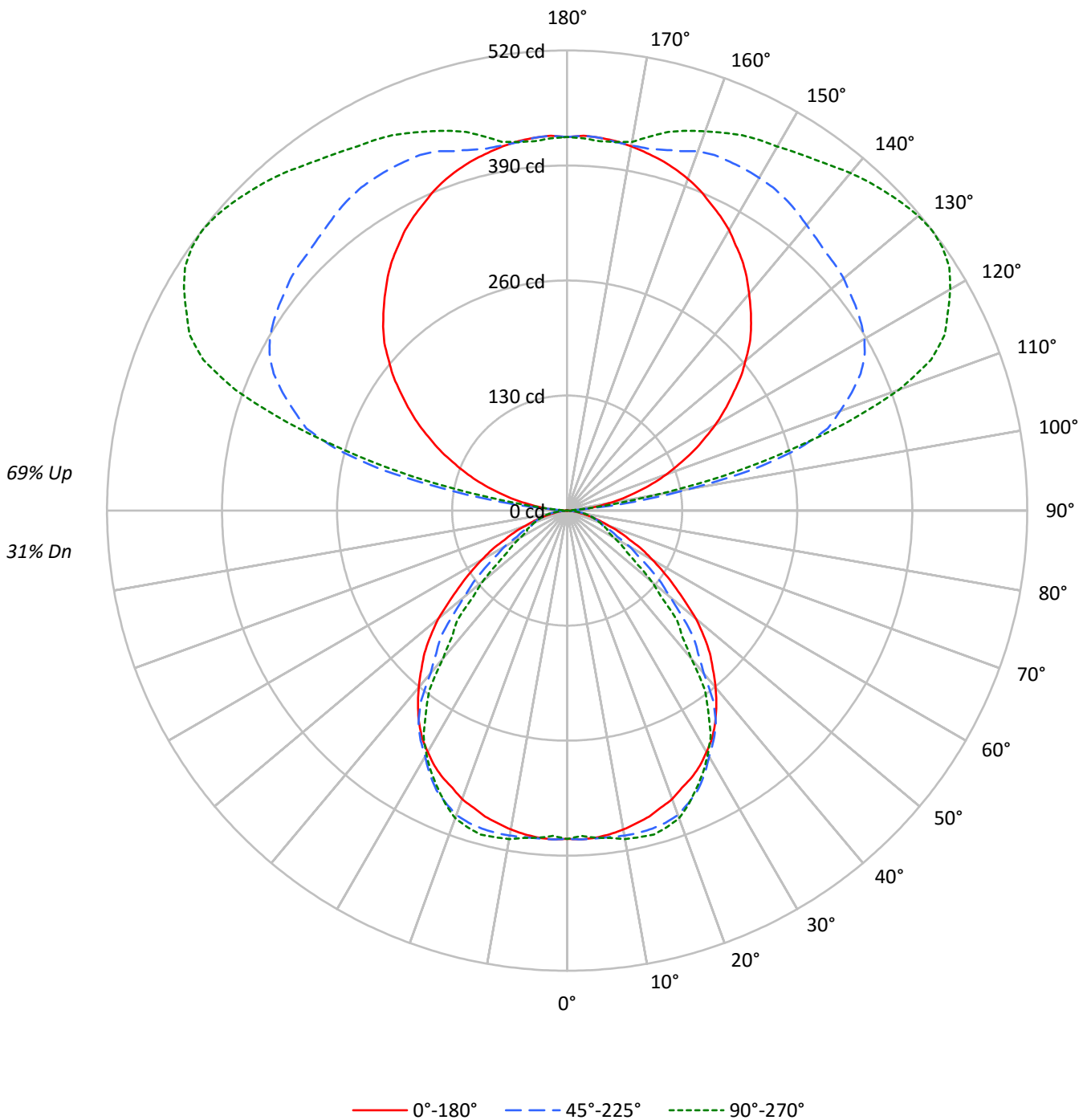
Lumens per Lamp: 2950 (1 lamp)
Luminaire Lumens: 2762.0 lumens
Efficiency: 93.6%
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.27
Luminous Opening: Rectangular (W 0.61' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 35.1
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				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	96	96	96	96	86	86	86	86	68	68	68	51	51	51	36	36	36	29
1	88	84	81	78	79	76	73	70	60	58	56	46	44	43	32	32	31	25
2	80	74	68	64	72	67	62	58	53	50	47	40	39	37	29	28	27	22
3	73	65	59	54	66	59	53	49	47	43	40	36	34	31	26	24	23	19
4	67	58	51	46	60	52	46	42	42	38	34	32	30	27	23	22	20	16
5	62	52	44	39	55	47	41	36	38	33	30	29	26	24	21	19	18	14
6	57	46	39	34	51	42	36	31	34	29	26	26	23	21	19	17	16	13
7	53	42	35	30	47	38	32	27	31	26	23	24	21	19	18	16	14	11
8	49	38	31	26	44	34	28	24	28	24	20	22	19	17	16	14	13	10
9	45	34	28	23	41	31	26	22	26	21	18	20	17	15	15	13	12	9
10	42	32	25	21	38	29	23	19	24	19	16	19	16	13	14	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1629	1629	1629
5°	1635	1639	1635
10°	1632	1663	1681
15°	1627	1691	1722
20°	1621	1710	1729
25°	1613	1690	1676
30°	1597	1627	1612
35°	1565	1570	1490
40°	1496	1375	1249
45°	1416	1254	1093
50°	1298	1031	854
55°	1125	873	635
60°	975	720	536
65°	810	571	519
70°	642	526	501
75°	492	509	509
80°	354	506	506
85°	201	353	353



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	35.4	1.3	1.2
10°-20°	104.5	3.8	3.5
20°-30°	158.8	5.7	5.4
30°-40°	180.7	6.5	6.1
40°-50°	156.4	5.7	5.3
50°-60°	106.9	3.9	3.6
60°-70°	62.4	2.3	2.1
70°-80°	33.2	1.2	1.1
80°-90°	9.2	0.3	0.3
90°-100°	46.2	1.7	1.6
100°-110°	235.4	8.5	8.0
110°-120°	338.7	12.3	11.5
120°-130°	350.6	12.7	11.9
130°-140°	319.4	11.6	10.8
140°-150°	265.8	9.6	9.0
150°-160°	198.1	7.2	6.7
160°-170°	120.2	4.4	4.1
170°-180°	40.2	1.5	1.4
0°-30°	298.8	10.8	10.1
0°-40°	479.4	17.4	16.3
0°-60°	742.7	26.9	25.2
0°-90°	847.5	30.7	28.7
90°-120°	620.2	22.5	21.0
90°-150°	1556.0	56.3	52.7
90°-180°	1914.0	69.3	64.9
0°-180°	2762.0	100.0	93.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	371	371	371	371	371	
5°	371	372	372	370	371	35
15°	358	364	372	377	379	101
25°	333	342	349	352	346	153
35°	292	297	293	293	278	182
45°	228	227	202	184	176	175
55°	147	143	114	101	83	132
65°	78	79	55	51	50	79
75°	29	32	30	32	30	32
85°	4	9	7	9	7	5
90°	0	0	0	0	0	1
95°	20	65	17	15	9	22
105°	82	192	271	279	254	87
115°	156	249	366	447	471	154
125°	228	309	399	489	518	204
135°	294	355	413	481	509	226
145°	345	383	430	467	485	216
155°	383	396	435	457	468	177
165°	410	411	422	435	443	116
175°	423	423	423	420	419	40
180°	422	422	422	422	422	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	371	371	371	371	371
2.5°	372	372	372	369	368
5°	371	372	372	370	371
7.5°	369	370	372	372	373
10°	366	369	373	375	377
12.5°	362	366	373	376	378
15°	358	364	372	377	379
17.5°	352	360	370	376	375
20°	347	356	366	371	370
22.5°	339	349	358	364	359
25°	333	342	349	352	346
27.5°	325	334	336	339	333
30°	315	323	321	325	318
32.5°	305	311	308	311	302
35°	292	297	293	293	278
37.5°	277	281	271	266	256
40°	261	266	240	246	218
42.5°	244	247	219	211	192
45°	228	227	202	184	176
47.5°	209	209	175	168	144
50°	190	184	151	140	125
52.5°	167	163	134	120	101
55°	147	143	114	101	83
57.5°	129	127	95	80	73
60°	111	109	82	71	61
62.5°	96	92	64	57	51
65°	78	79	55	51	50
67.5°	65	65	43	48	44
70°	50	53	41	41	39
72.5°	39	43	35	36	34
75°	29	32	30	32	30
77.5°	20	25	25	27	26
80°	14	20	20	22	20
82.5°	8	15	14	16	13
85°	4	9	7	9	7
87.5°	0	4	2	3	2
90°	0	0	0	0	0
92.5°	6	14	4	5	3
95°	20	65	17	15	9
97.5°	33	114	76	66	41
100°	48	147	139	136	99
102.5°	65	171	215	211	181
105°	82	192	271	279	254
107.5°	101	209	309	351	332
110°	119	222	328	405	399



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	137	235	348	432	445
115°	156	249	366	447	471
117.5°	174	262	379	462	485
120°	193	278	388	477	500
122.5°	211	293	394	485	512
125°	228	309	399	489	518
127.5°	247	323	403	489	520
130°	263	337	408	487	518
132.5°	280	346	411	484	514
135°	294	355	413	481	509
137.5°	307	364	417	478	504
140°	320	372	421	473	498
142.5°	333	379	426	469	491
145°	345	383	430	467	485
147.5°	355	386	433	464	480
150°	366	389	434	463	475
152.5°	375	392	435	461	472
155°	383	396	435	457	468
157.5°	392	400	435	453	462
160°	399	404	432	447	456
162.5°	405	408	426	443	450
165°	410	411	422	435	443
167.5°	414	415	419	425	433
170°	418	418	419	420	423
172.5°	421	421	420	419	420
175°	423	423	423	420	419
177.5°	424	423	424	421	421
180°	422	422	422	422	422

(END OF REPORT)