

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: METALUX

Report Number: P30241

Luminaire Tested: **SNF-117-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30241
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SNF-117-UNV-EB81
Description: METALUX SNF 2FT COMMERCIAL NARROW STRIPLIGHT
WITH A WHITE BALLAST COVER
Light Source: ONE (1) 17W T8 LAMP - 1350 LUMENS
Ballast/Driver: -

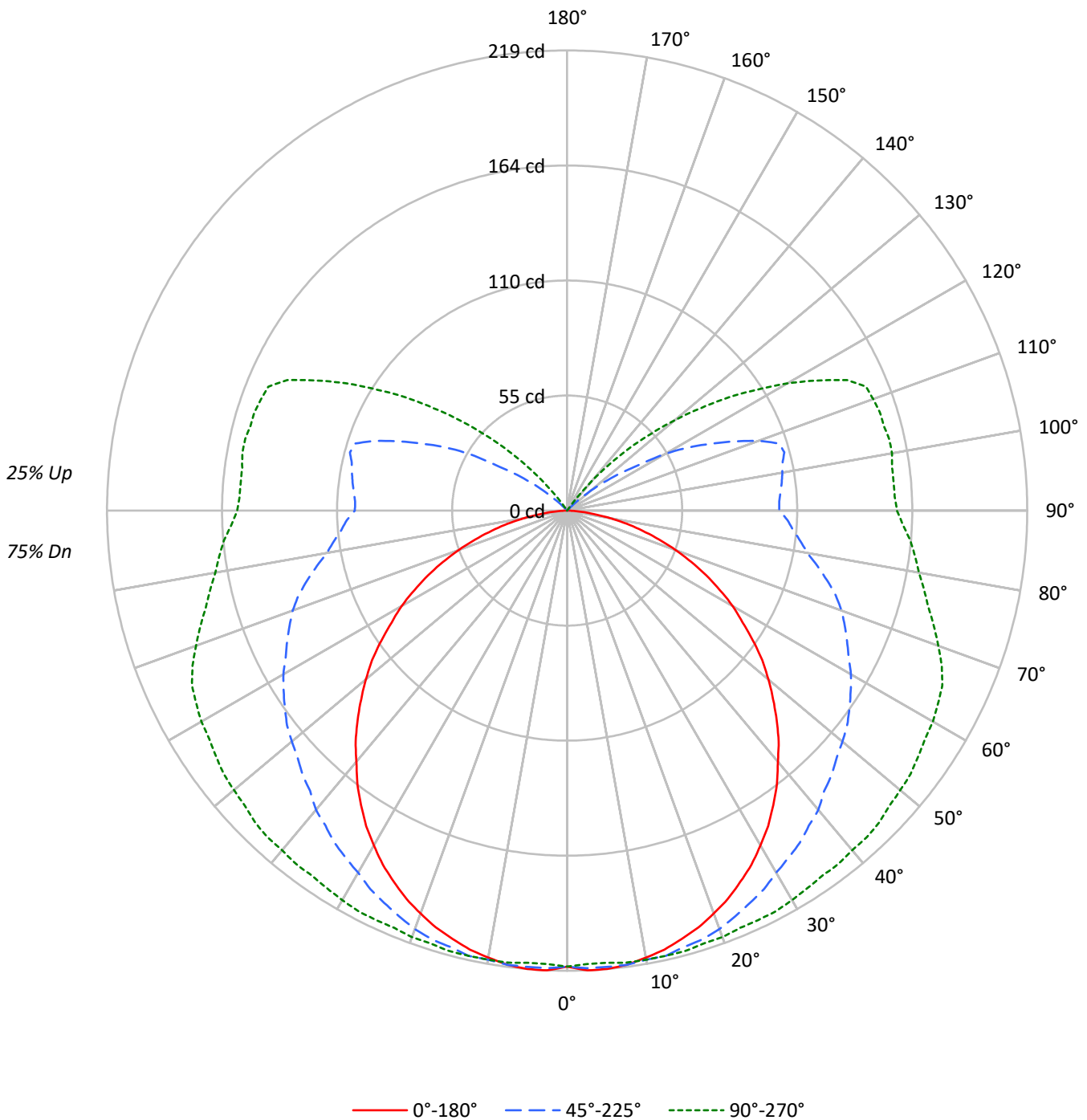
Summary

Lumens per Lamp: 1350 (1 lamp)
Luminaire Lumens: 1265.8 lumens
Efficiency: 93.8%
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.5 / 1.55
Luminous Opening: Rectangular (W 0.23' x L: 2' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 17.5
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			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	106	106	106	106	101	101	101	101	91	91	91	82	82	82	74	74	74	70
1	93	87	82	77	88	83	78	74	75	71	67	67	64	61	60	57	55	52
2	83	74	67	60	79	70	64	58	63	58	53	57	52	48	50	47	44	40
3	75	64	56	49	71	61	53	47	55	48	43	49	44	39	44	39	36	33
4	68	56	47	40	64	53	45	39	48	41	36	43	37	33	38	34	30	27
5	63	50	41	34	59	47	39	33	43	36	30	38	32	28	34	29	25	23
6	58	44	36	29	54	42	34	28	38	31	26	34	29	24	31	26	22	20
7	53	40	31	25	50	38	30	25	34	28	23	31	25	21	28	23	19	17
8	49	36	28	22	47	35	27	22	31	25	20	28	23	19	26	21	17	15
9	46	33	25	20	43	32	24	19	29	22	18	26	21	17	24	19	15	13
10	43	30	23	18	41	29	22	17	27	20	16	24	19	15	22	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5096	5096	5096
5°	5163	5139	5092
10°	5151	5175	5175
15°	5130	5227	5276
20°	5098	5298	5398
25°	5053	5338	5571
30°	4990	5396	5803
35°	4903	5533	6078
40°	4783	5702	6469
45°	4683	5912	6975
50°	4567	6248	7563
55°	4422	6715	8353
60°	4274	7327	9441
65°	4057	8169	10947
70°	3777	9544	12909
75°	3357	11615	16151
80°	2840	15688	22991
85°	1886	29102	44191



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	20.8	1.6	1.5	0°	217	217	217	217	217	
10°-20°	60.7	4.8	4.5	5°	219	218	218	217	216	21
20°-30°	95.1	7.5	7.0	15°	211	212	215	217	217	60
30°-40°	120.7	9.5	8.9	25°	195	200	206	213	215	90
40°-50°	136.7	10.8	10.1	35°	171	179	193	207	212	107
50°-60°	143.4	11.3	10.6	45°	141	152	178	201	210	109
60°-70°	140.4	11.1	10.4	55°	108	127	164	194	204	97
70°-80°	126.0	10.0	9.3	65°	73	102	147	184	197	72
80°-90°	108.0	8.5	8.0	75°	37	76	128	165	178	40
90°-100°	100.7	8.0	7.5	85°	7	52	108	149	164	9
100°-110°	95.7	7.6	7.1	90°	0	45	101	142	157	0
110°-120°	70.5	5.6	5.2	95°	0	47	102	142	156	0
120°-130°	35.4	2.8	2.6	105°	0	36	107	143	156	0
130°-140°	11.0	0.9	0.8	115°	0	8	75	129	147	0
140°-150°	0.7	0.1	0.1	125°	0	0	31	78	94	0
150°-160°	0.0	0.0	0.0	135°	0	0	2	30	42	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	2	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	176.5	13.9	13.1	165°	0	0	0	0	0	0
0°-40°	297.2	23.5	22.0	175°	0	0	0	0	0	0
0°-60°	577.3	45.6	42.8	180°	0	0	0	0	0	0
0°-90°	951.7	75.2	70.5							
90°-120°	267.0	21.1	19.8							
90°-150°	314.0	24.8	23.3							
90°-180°	314.0	24.8	23.3							
0°-180°	1265.8	100.0	93.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	217	217	217	217	217
2.5°	219	219	218	217	216
5°	219	218	218	217	216
7.5°	218	217	218	218	217
10°	216	216	217	218	217
12.5°	214	214	217	218	217
15°	211	212	215	217	217
17.5°	208	210	214	216	216
20°	204	207	212	215	216
22.5°	200	204	209	214	215
25°	195	200	206	213	215
27.5°	190	195	203	212	215
30°	184	190	199	210	214
32.5°	178	185	196	209	213
35°	171	179	193	207	212
37.5°	164	172	189	205	212
40°	156	166	186	204	211
42.5°	149	159	181	203	211
45°	141	152	178	201	210
47.5°	133	146	174	200	208
50°	125	139	171	198	207
52.5°	117	133	168	196	206
55°	108	127	164	194	204
57.5°	99	120	160	191	202
60°	91	114	156	189	201
62.5°	82	108	151	186	199
65°	73	102	147	184	197
67.5°	64	96	143	180	193
70°	55	89	139	175	188
72.5°	46	82	134	170	183
75°	37	76	128	165	178
77.5°	29	69	122	160	174
80°	21	64	116	156	170
82.5°	13	57	112	152	167
85°	7	52	108	149	164
87.5°	2	48	105	145	160
90°	0	45	101	142	157
92.5°	0	46	101	141	156
95°	0	47	102	142	156
97.5°	0	49	103	142	156
100°	0	50	104	142	157
102.5°	0	44	105	143	157
105°	0	36	107	143	156
107.5°	0	29	106	143	156
110°	0	22	97	143	155



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	15	86	140	154
115°	0	8	75	129	147
117.5°	0	3	65	116	134
120°	0	0	54	103	121
122.5°	0	0	40	91	107
125°	0	0	31	78	94
127.5°	0	0	22	65	80
130°	0	0	15	51	67
132.5°	0	0	8	40	54
135°	0	0	2	30	42
137.5°	0	0	0	20	30
140°	0	0	0	10	19
142.5°	0	0	0	2	9
145°	0	0	0	0	2
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)