

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: HALO

Report Number: P553807

Luminaire Tested: **L80916NF940MB**

Issue Date: 7/16/2021

Test Information

Test Method: LM-41-14
Report Number: P553807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-226-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L80916NF940MB
Description: NARROW FLOOD OPTIC
Light Source: 1600 LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

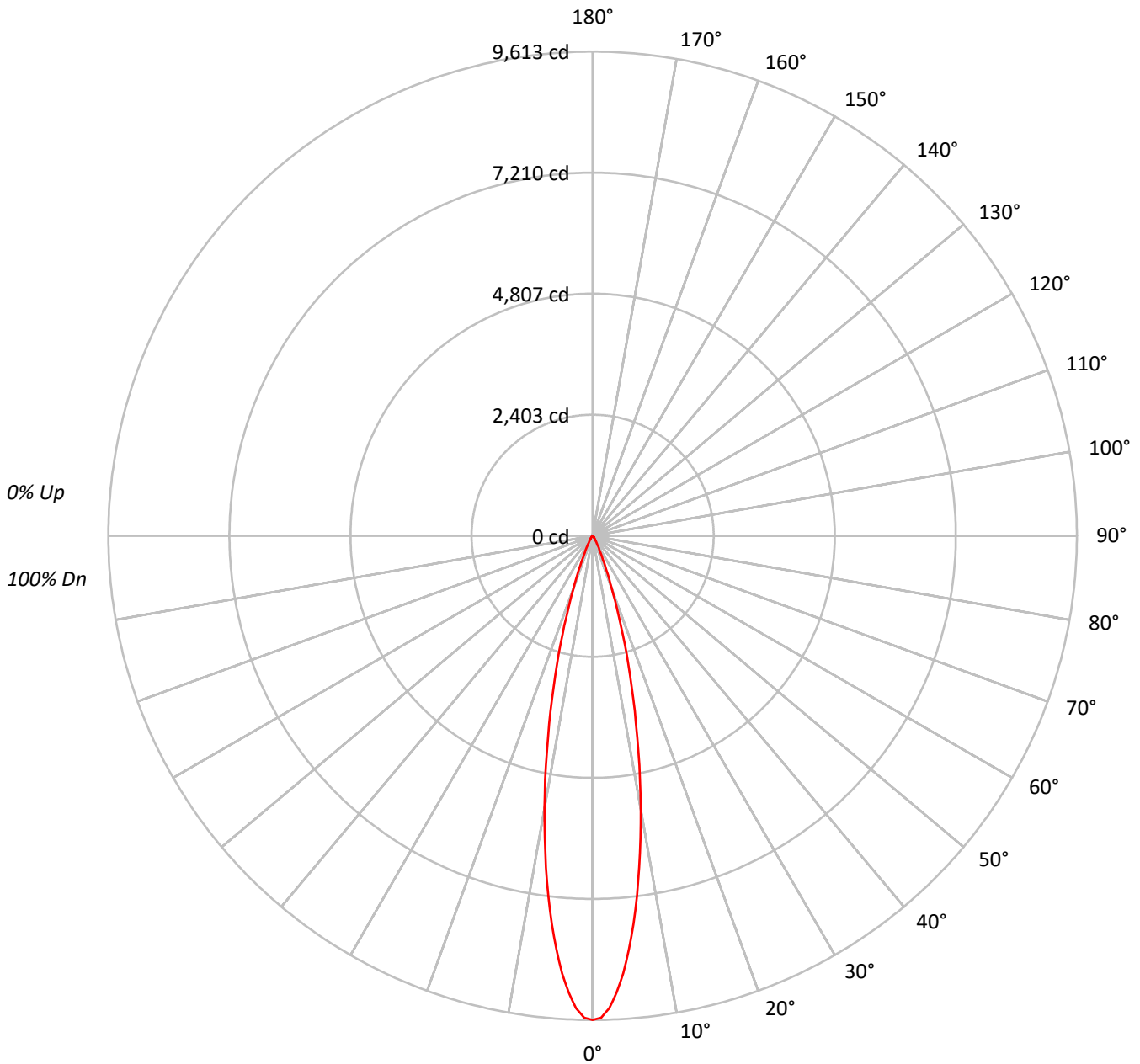
Lumens per Lamp: N/A
Luminaire Lumens: 1770.4 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.39
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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				
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	113	111	110	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	97	97
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94	94
3	108	104	100	97	106	102	99	96	100	97	95	97	95	94	95	94	92	91	91	91	91
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	88	88	88
5	102	96	92	89	101	95	92	89	94	91	88	92	90	87	91	89	87	86	86	86	86
6	99	93	89	86	98	92	89	86	91	88	85	90	87	85	89	86	84	83	83	83	83
7	97	90	86	84	96	90	86	83	89	85	83	88	85	83	87	84	82	81	81	81	81
8	94	88	84	81	93	87	84	81	86	83	81	86	83	80	85	82	80	79	79	79	79
9	92	85	82	79	91	85	81	79	84	81	79	84	81	78	83	80	78	77	77	77	77
10	90	83	80	77	89	83	79	77	82	79	77	82	79	77	81	78	76	76	76	76	76

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2107967
5°	1814435
10°	1226341
15°	648517
20°	257529
25°	87707
30°	36183
35°	18979
40°	11135
45°	7102
50°	5458
55°	4817
60°	3991
65°	3580
70°	2180
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.9	39.4
10°-20°	787.5	44.5
20°-30°	200.6	11.3
30°-40°	47.9	2.7
40°-50°	18.8	1.1
50°-60°	11.2	0.6
60°-70°	6.6	0.4
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1685.1	95.2
0°-40°	1733.0	97.9
0°-60°	1763.0	99.6
0°-90°	1770.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1770.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9613	
5°	8243	697
15°	2857	788
25°	362	201
35°	71	48
45°	23	19
55°	13	11
65°	7	7
75°	0	1
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9613.1
1°	9568.5
2°	9386.6
3°	9082.4
4°	8707.3
5°	8243.0
6°	7750.2
7°	7208.1
8°	6648.9
9°	6069.1
10°	5507.6
11°	4933.5
12°	4366.2
13°	3828.8
14°	3326.7
15°	2856.7
16°	2451.9
17°	2044.7
18°	1691.4
19°	1366.6
20°	1103.6
22.5°	632.4
25°	362.5
27.5°	221.9
30°	142.9
32.5°	99.5
35°	70.9
37.5°	51.5
40°	38.9
42.5°	29.7
45°	22.9
47.5°	18.3
50°	16.0
52.5°	13.7
55°	12.6
57.5°	11.4
60°	9.1
62.5°	8.0
65°	6.9
67.5°	5.7
70°	3.4
72.5°	1.1
75°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0



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— 0°-180°







77.5°		0.0
80°		0.0



(END OF REPORT)