

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: P553804

Luminaire Tested: **L80916NF927MB**

Issue Date: 7/16/2021

Test Information

Test Method: LM-41-14
Report Number: P553804
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: L80916NF927MB
Description: NARROW FLOOD OPTIC
Light Source: 1600 LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

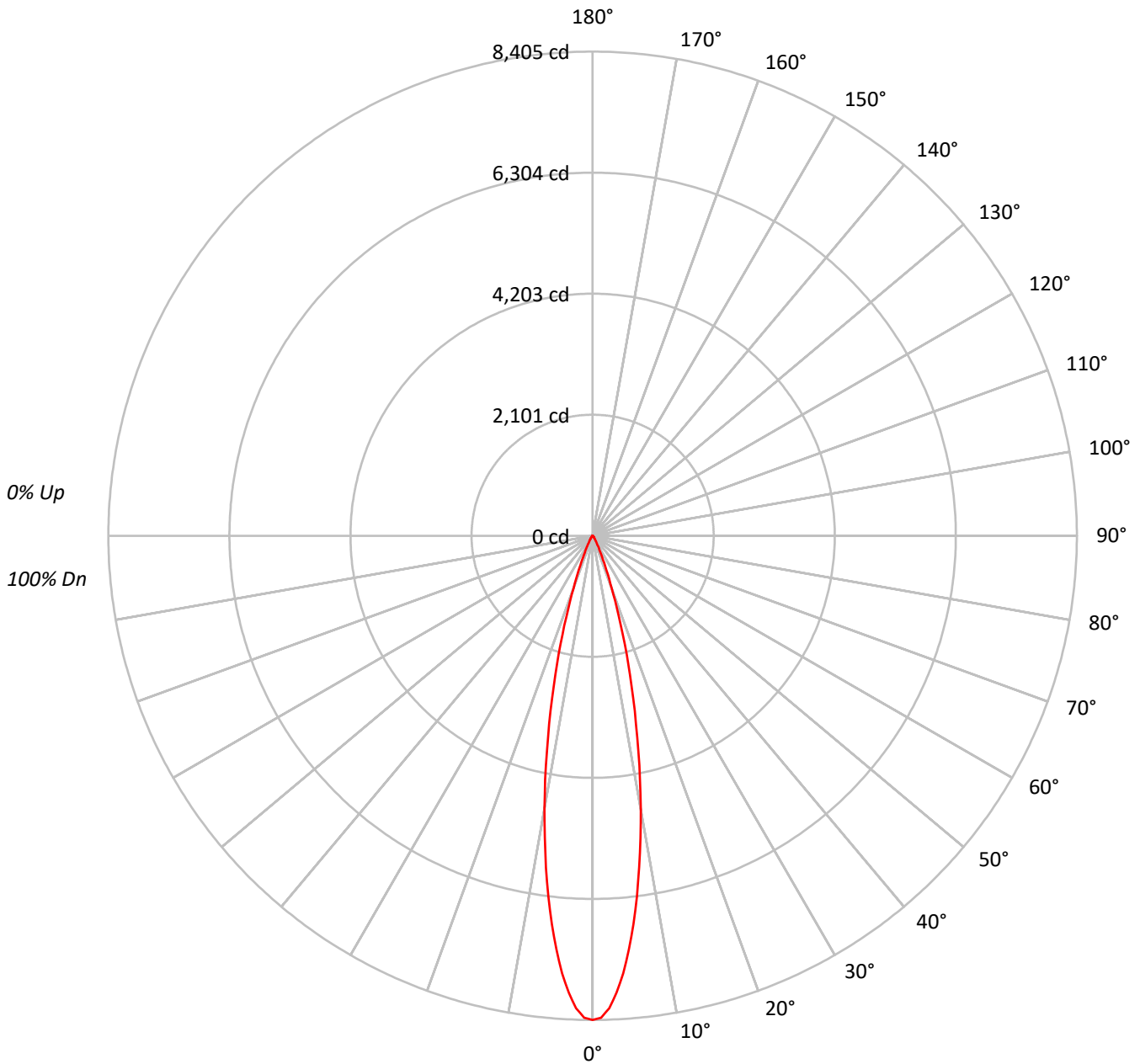
Lumens per Lamp: N/A
Luminaire Lumens: 1548.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.39
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P553804
CATALOG NUMBER: L80916NF927MB

Luminous Intensity Polar Plot





TEST NUMBER: P553804

CATALOG NUMBER: L80916NF927MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20
RC	80									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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	110	113	111	109	108	107	106	104	103	102	101	100	99	98	97	98	96	95	94	94	97													
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	98	96	95	94	94	97													
3	108	104	100	97	106	102	99	96	100	97	95	97	95	94	95	94	92	91	95	94	92	91	91	94													
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	93	91	89	87	87	91													
5	102	96	92	89	101	95	92	89	94	91	88	92	90	87	91	89	87	86	91	89	87	86	86	91													
6	99	93	89	86	98	92	89	86	91	88	85	90	87	85	89	86	84	83	89	86	84	83	83	89													
7	97	90	86	84	96	90	86	83	89	85	83	88	85	83	87	84	82	81	88	85	83	82	81	88													
8	94	88	84	81	93	87	84	81	86	83	81	86	83	80	85	82	80	79	86	83	80	79	79	86													
9	92	85	82	79	91	85	81	79	84	81	79	84	81	78	83	80	78	77	84	81	78	77	77	84													
10	90	83	80	77	89	83	79	77	82	79	77	82	79	77	81	78	76	75	82	79	77	75	75	82													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1843142
5°	1586503
10°	1072280
15°	567041
20°	225163
25°	76698
30°	31650
35°	16597
40°	9733
45°	6202
50°	4776
55°	4205
60°	3508
65°	3113
70°	1923
75°	0
80°	0
85°	0



TEST NUMBER: P553804

CATALOG NUMBER: L80916NF927MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.4	39.4
10°-20°	688.6	44.5
20°-30°	175.4	11.3
30°-40°	41.9	2.7
40°-50°	16.4	1.1
50°-60°	9.8	0.6
60°-70°	5.8	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°	1473.4	95.2
0°-40°	1515.3	97.9
0°-60°	1541.6	99.6
0°-90°	1548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1548.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8405	
5°	7208	609
15°	2498	689
25°	317	175
35°	62	42
45°	20	16
55°	11	10
65°	6	6
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	



TEST NUMBER: P553804

CATALOG NUMBER: L80916NF927MB

CANDELA DISTRIBUTION (FULL):

0°	
0°	8405.4
1°	8366.4
2°	8207.4
3°	7941.5
4°	7613.5
5°	7207.5
6°	6776.5
7°	6302.6
8°	5813.6
9°	5306.6
10°	4815.7
11°	4313.7
12°	3817.7
13°	3347.8
14°	2908.8
15°	2497.8
16°	2143.9
17°	1787.9
18°	1478.9
19°	1194.9
20°	964.9
22.5°	553.0
25°	317.0
27.5°	194.0
30°	125.0
32.5°	87.0
35°	62.0
37.5°	45.0
40°	34.0
42.5°	26.0
45°	20.0
47.5°	16.0
50°	14.0
52.5°	12.0
55°	11.0
57.5°	10.0
60°	8.0
62.5°	7.0
65°	6.0
67.5°	5.0
70°	3.0
72.5°	1.0
75°	0.0



TEST NUMBER: P553804

CATALOG NUMBER: L80916NF927MB

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



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







77.5°		0.0
80°		0.0



(END OF REPORT)