

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: P553805

Luminaire Tested: **L80916NF930MB**

Issue Date: 7/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P553805  
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: L80916NF930MB  
Description: NARROW FLOOD OPTIC  
Light Source: 1600 LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

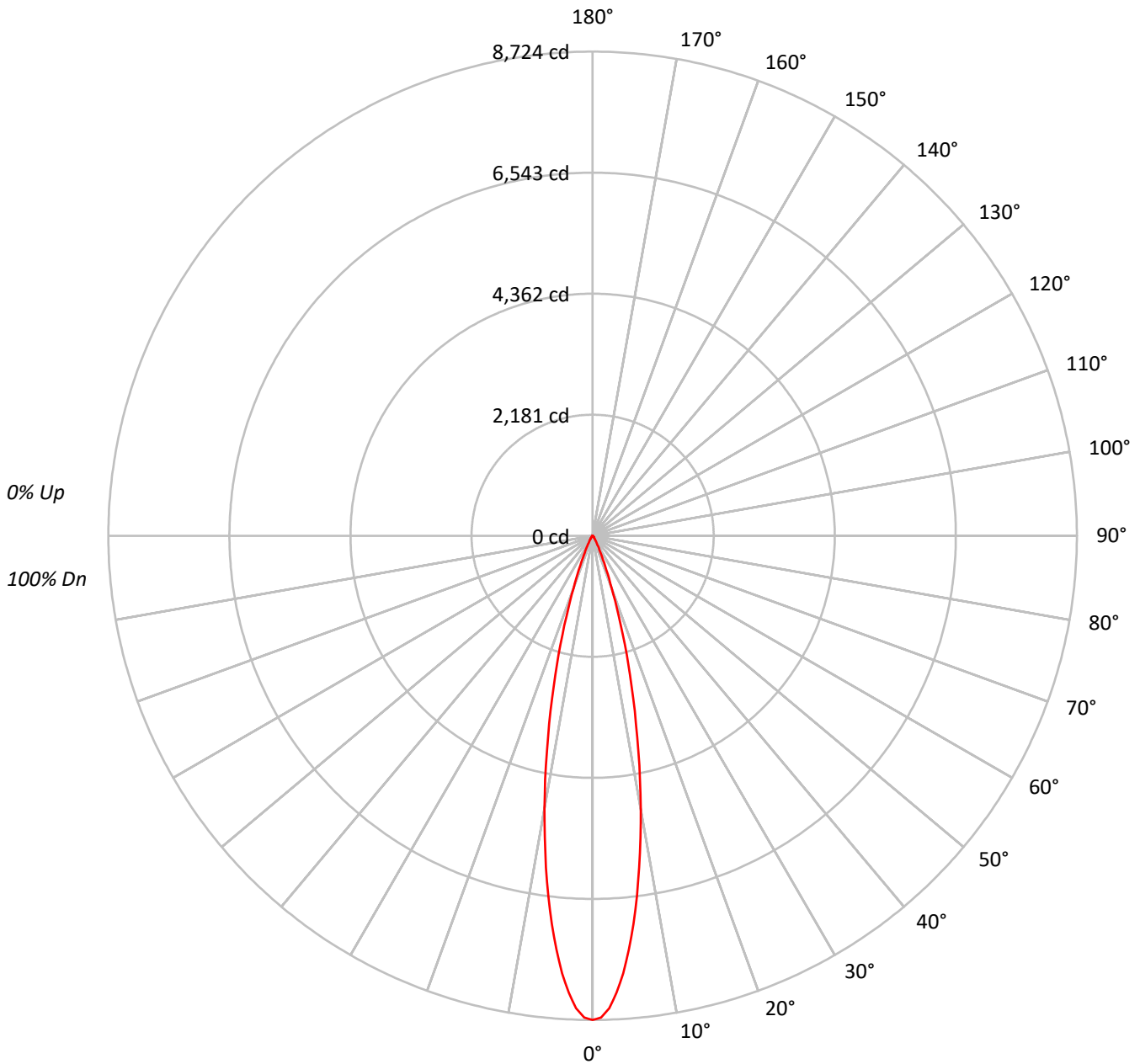
Lumens per Lamp: N/A  
Luminaire Lumens: 1606.6 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.39  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1912983
5°	1646617
10°	1112894
15°	588539
20°	233704
25°	79601
30°	32840
35°	17213
40°	10105
45°	6450
50°	4947
55°	4358
60°	3640
65°	3217
70°	1988
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.5	39.4
10°-20°	714.7	44.5
20°-30°	182.1	11.3
30°-40°	43.4	2.7
40°-50°	17.1	1.1
50°-60°	10.2	0.6
60°-70°	6.0	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°	1529.2	95.2
0°-40°	1572.7	97.9
0°-60°	1600.0	99.6
0°-90°	1606.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1606.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8724	
5°	7481	632
15°	2592	715
25°	329	182
35°	64	43
45°	21	17
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8723.9
1°	8683.4
2°	8518.4
3°	8242.3
4°	7901.9
5°	7480.6
6°	7033.3
7°	6541.3
8°	6033.8
9°	5507.7
10°	4998.1
11°	4477.1
12°	3962.4
13°	3474.6
14°	3019.0
15°	2592.5
16°	2225.1
17°	1855.6
18°	1534.9
19°	1240.2
20°	1001.5
22.5°	573.9
25°	329.0
27.5°	201.3
30°	129.7
32.5°	90.3
35°	64.3
37.5°	46.7
40°	35.3
42.5°	27.0
45°	20.8
47.5°	16.6
50°	14.5
52.5°	12.5
55°	11.4
57.5°	10.4
60°	8.3
62.5°	7.3
65°	6.2
67.5°	5.2
70°	3.1
72.5°	1.0
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)