

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: P553803

Luminaire Tested: **L80916FL940MB**

Issue Date: 7/16/2021

Test Information

Test Method: LM-41-14
Report Number: P553803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-226-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L80916FL940MB
Description: FLOOD OPTIC
Light Source: 1600 LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

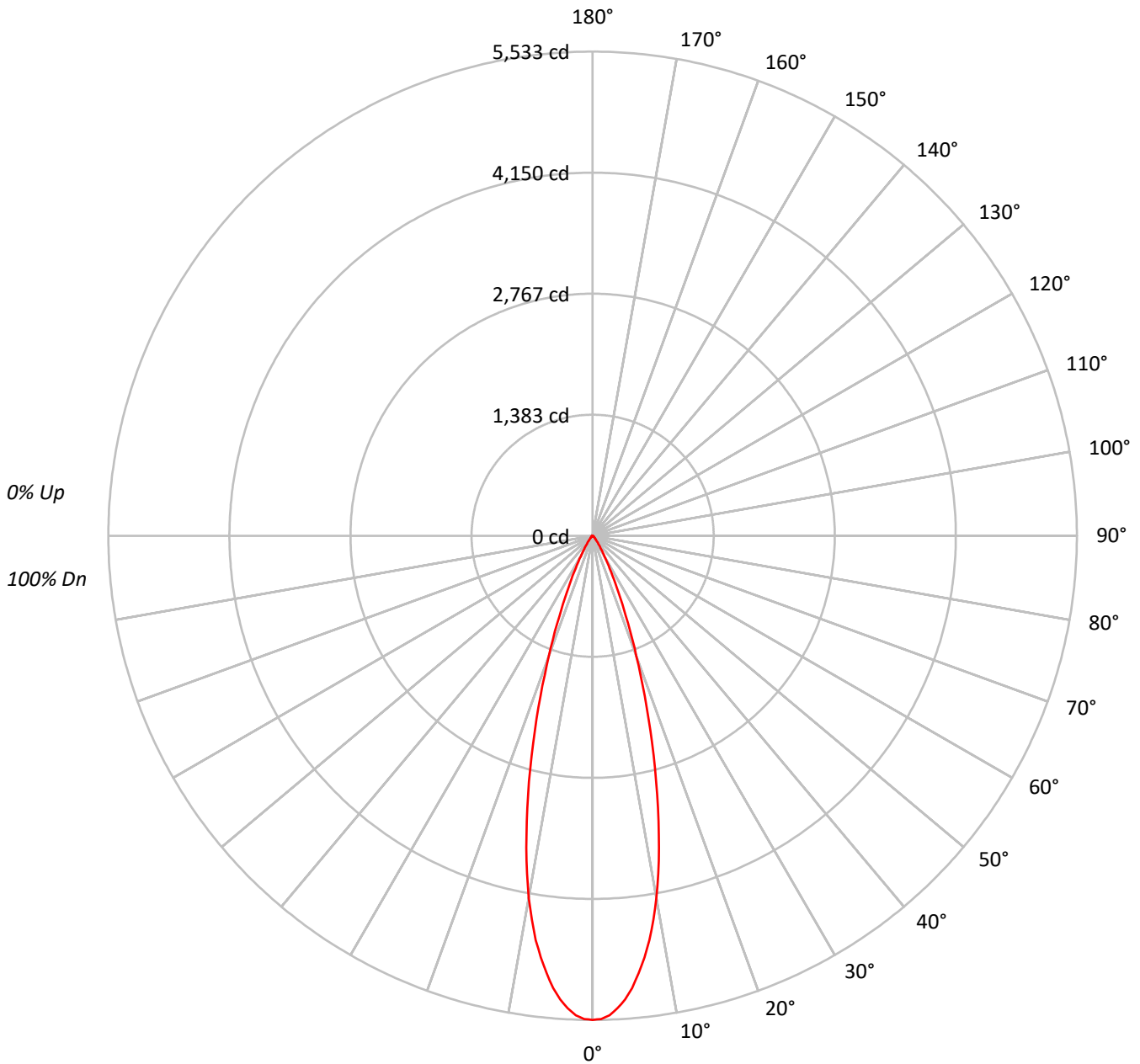
Lumens per Lamp: N/A
Luminaire Lumens: 1657.2 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 0.5 / 0.5 / 0.49
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	112	110	109	112	110	109	107	106	105	104	103	102	101	99	98	98	96		
2	111	107	103	101	108	105	102	100	102	100	97	99	97	95	96	95	93	92		
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88		
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85		
5	99	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82		
6	96	89	85	82	95	89	84	81	87	84	81	86	83	80	85	82	80	79		
7	93	86	82	78	92	85	81	78	84	81	78	83	80	77	82	79	77	76		
8	90	83	79	75	89	83	78	75	82	78	75	81	77	75	80	77	74	73		
9	87	80	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71		
10	85	78	73	70	84	77	73	70	77	73	70	76	72	70	75	72	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1213346
5°	1141974
10°	935186
15°	625089
20°	340486
25°	157703
30°	68340
35°	31213
40°	15715
45°	9210
50°	6243
55°	4817
60°	4517
65°	4151
70°	2180
75°	932
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.4	28.0
10°-20°	745.6	45.0
20°-30°	322.1	19.4
30°-40°	81.2	4.9
40°-50°	24.4	1.5
50°-60°	11.9	0.7
60°-70°	7.6	0.5
70°-80°	1.0	0.1
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°	1531.1	92.4
0°-40°	1612.2	97.3
0°-60°	1648.5	99.5
0°-90°	1657.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1657.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5533	
5°	5188	463
15°	2754	746
25°	652	322
35°	117	81
45°	30	24
55°	13	12
65°	8	8
75°	1	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°	5533.3
1°	5523.0
2°	5483.0
3°	5408.7
4°	5312.6
5°	5188.0
6°	5027.9
7°	4855.2
8°	4665.4
9°	4442.4
10°	4200.0
11°	3933.6
12°	3645.4
13°	3347.0
14°	3049.7
15°	2753.5
16°	2460.8
17°	2189.8
18°	1926.8
19°	1680.9
20°	1459.1
22.5°	986.8
25°	651.8
27.5°	417.4
30°	269.9
32.5°	175.0
35°	116.6
37.5°	78.9
40°	54.9
42.5°	38.9
45°	29.7
47.5°	22.9
50°	18.3
52.5°	14.9
55°	12.6
57.5°	11.4
60°	10.3
62.5°	9.1
65°	8.0
67.5°	6.9
70°	3.4
72.5°	1.1
75°	1.1



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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)