

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: P553817

Luminaire Tested: **L80916WS930MB**

Issue Date: 7/16/2021

Test Information

Test Method: LM-41-14
Report Number: P553817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-226-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L80916WS930MB
Description: WIDE SPOT OPTIC
Light Source: 1600 LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

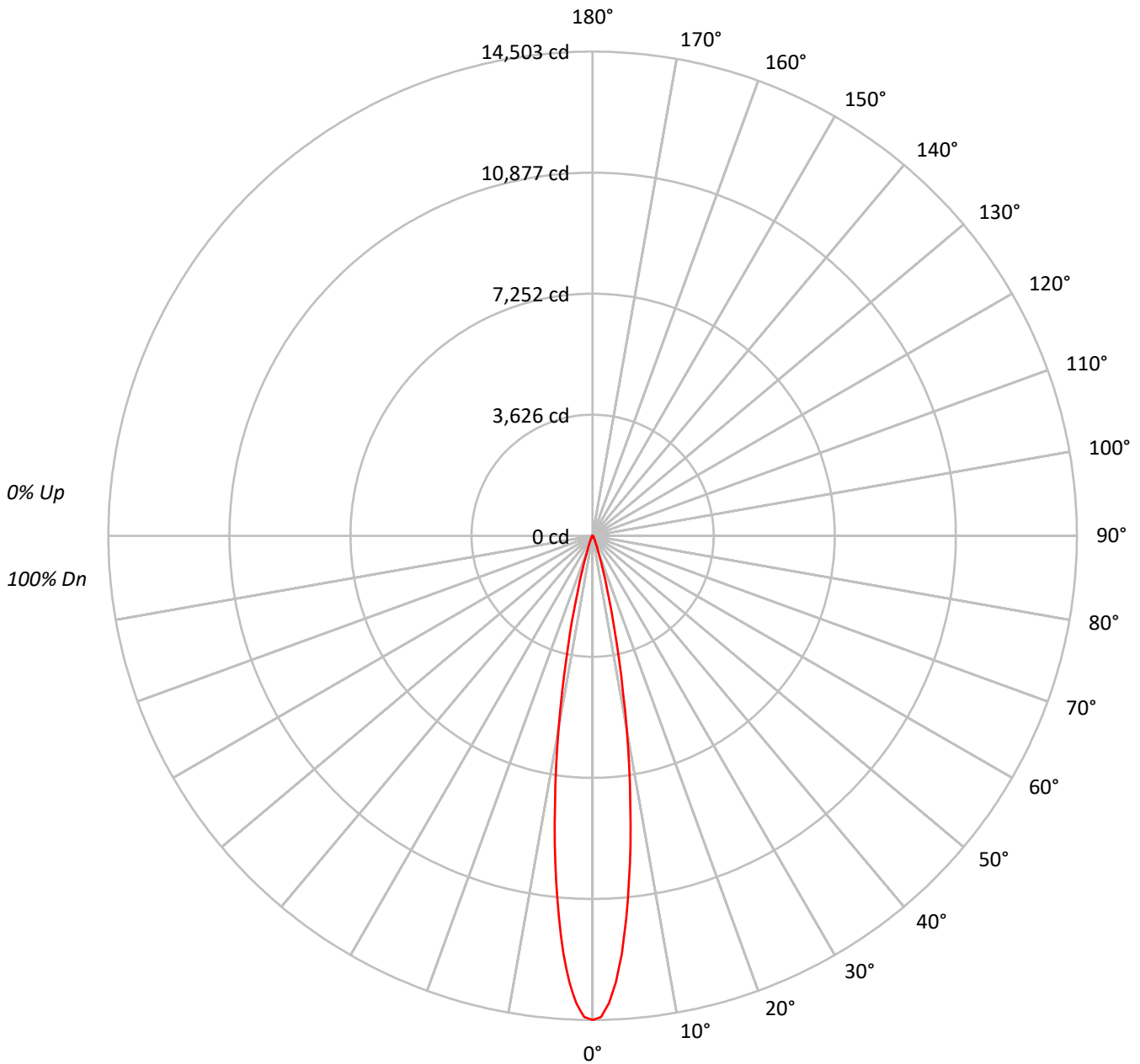
Lumens per Lamp: N/A
Luminaire Lumens: 1607.7 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.3
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
1	116	114	112	111	113	112	110	109	108	107	105	104	103	102	101	100	99	98	98	98	98
2	112	109	107	105	110	108	105	103	105	103	101	102	100	99	99	98	97	96	99	98	96
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	98	96	94
4	107	102	99	97	106	101	98	96	100	97	95	98	96	94	96	94	93	92	96	94	92
5	105	100	96	94	103	99	96	93	97	95	93	96	94	92	95	93	91	90	95	93	91
6	102	97	94	91	101	97	93	91	95	93	91	94	92	90	93	91	89	89	93	91	89
7	100	95	92	89	99	95	91	89	94	91	89	93	90	88	92	90	88	87	92	90	88
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86	90	88	86
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	89	87	85
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	88	85	84

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3180250
5°	2535873
10°	1307212
15°	394054
20°	102956
25°	38688
30°	19978
35°	11109
40°	7128
45°	5148
50°	3889
55°	3173
60°	2719
65°	2698
70°	1988
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.4	56.7
10°-20°	555.7	34.6
20°-30°	86.0	5.4
30°-40°	28.1	1.7
40°-50°	13.0	0.8
50°-60°	7.8	0.5
60°-70°	5.0	0.3
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°	1553.2	96.6
0°-40°	1581.2	98.4
0°-60°	1602.0	99.6
0°-90°	1607.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1607.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14503	
5°	11520	911
15°	1736	556
25°	160	86
35°	42	28
45°	17	13
55°	8	8
65°	5	5
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°	14503.1
1°	14413.8
2°	14012.1
3°	13380.9
4°	12546.2
5°	11520.5
6°	10412.8
7°	9317.5
8°	8104.9
9°	6976.4
10°	5870.8
11°	4782.8
12°	3819.4
13°	3009.6
14°	2309.9
15°	1735.8
16°	1321.6
17°	982.1
18°	749.6
19°	566.8
20°	441.2
22.5°	251.2
25°	159.9
27.5°	111.1
30°	78.9
32.5°	57.1
35°	41.5
37.5°	32.2
40°	24.9
42.5°	19.7
45°	16.6
47.5°	13.5
50°	11.4
52.5°	10.4
55°	8.3
57.5°	7.3
60°	6.2
62.5°	5.2
65°	5.2
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)