

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: P553816

Luminaire Tested: **L80916WS927MB**

Issue Date: 7/16/2021

Test Information

Test Method: LM-41-14
Report Number: P553816
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: L80916WS927MB
Description: WIDE SPOT OPTIC
Light Source: 1600 LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1549.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

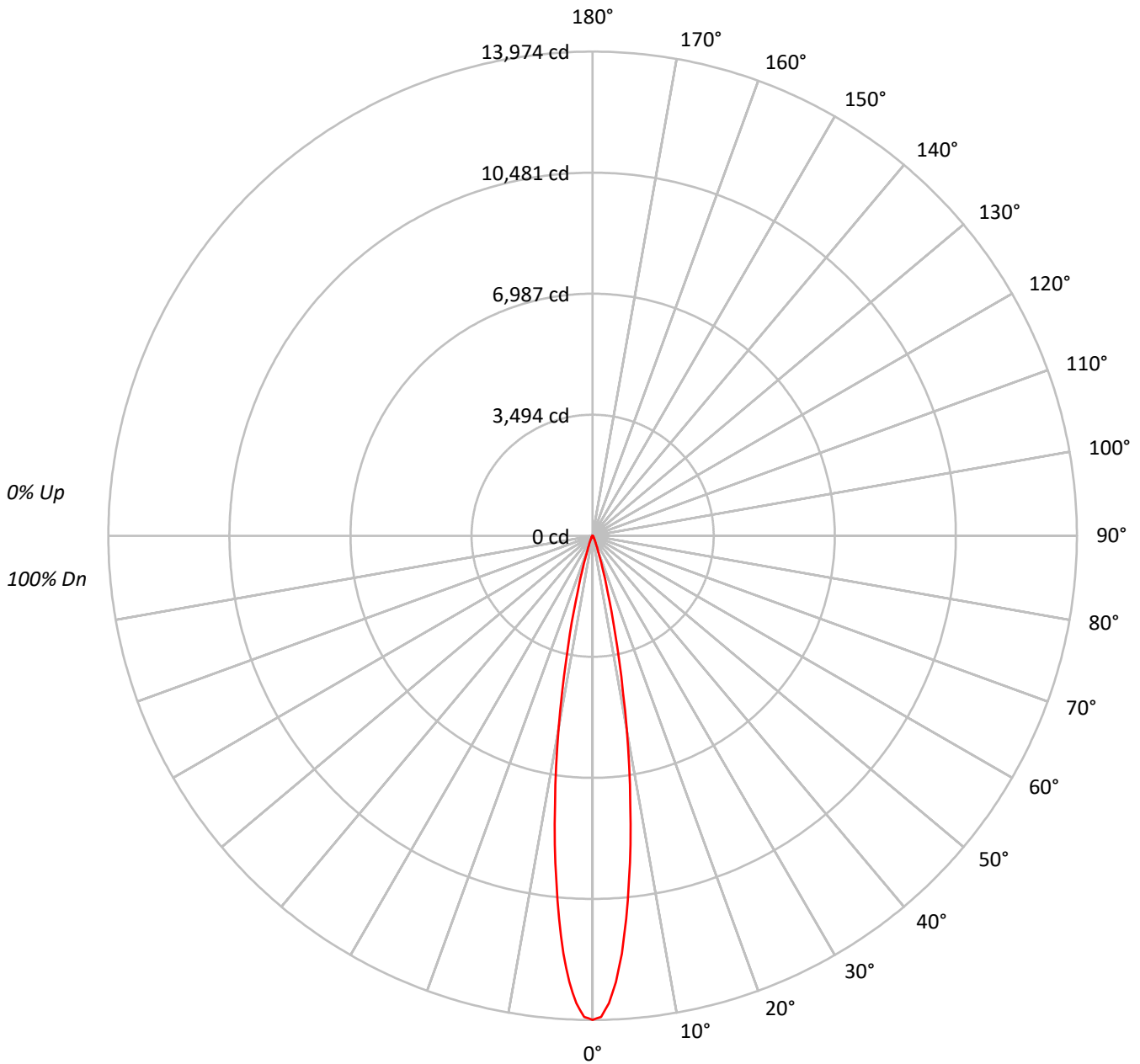
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P553816

CATALOG NUMBER: L80916WS927MB

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3064162
5°	2443313
10°	1259496
15°	379662
20°	99199
25°	37260
30°	19243
35°	10708
40°	6870
45°	4962
50°	3753
55°	3058
60°	2631
65°	2594
70°	1923
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	878.1	56.7
10°-20°	535.5	34.6
20°-30°	82.9	5.4
30°-40°	27.0	1.7
40°-50°	12.5	0.8
50°-60°	7.5	0.5
60°-70°	4.8	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°	1496.5	96.6
0°-40°	1523.5	98.4
0°-60°	1543.5	99.6
0°-90°	1549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1549.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13974	
5°	11100	878
15°	1672	535
25°	154	83
35°	40	27
45°	16	13
55°	8	7
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	



TEST NUMBER: P553816

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CANDELA DISTRIBUTION (FULL):

0°	
0°	13973.7
1°	13887.7
2°	13500.6
3°	12892.4
4°	12088.2
5°	11100.0
6°	10032.7
7°	8977.4
8°	7809.1
9°	6721.8
10°	5656.5
11°	4608.2
12°	3680.0
13°	2899.8
14°	2225.6
15°	1672.4
16°	1273.3
17°	946.3
18°	722.2
19°	546.1
20°	425.1
22.5°	242.1
25°	154.0
27.5°	107.0
30°	76.0
32.5°	55.0
35°	40.0
37.5°	31.0
40°	24.0
42.5°	19.0
45°	16.0
47.5°	13.0
50°	11.0
52.5°	10.0
55°	8.0
57.5°	7.0
60°	6.0
62.5°	5.0
65°	5.0
67.5°	5.0
70°	3.0
72.5°	1.0
75°	0.0



TEST NUMBER: P553816

CATALOG NUMBER: L80916WS927MB

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)