

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: P553819

Luminaire Tested: **L80916WS940MB**

Issue Date: 7/16/2021

Test Information

Test Method: LM-41-14
Report Number: P553819
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: L80916WS940MB
Description: WIDE SPOT OPTIC
Light Source: 1600 LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1771.5 lumens
Efficiency: N/A
Efficacy: 126.5 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

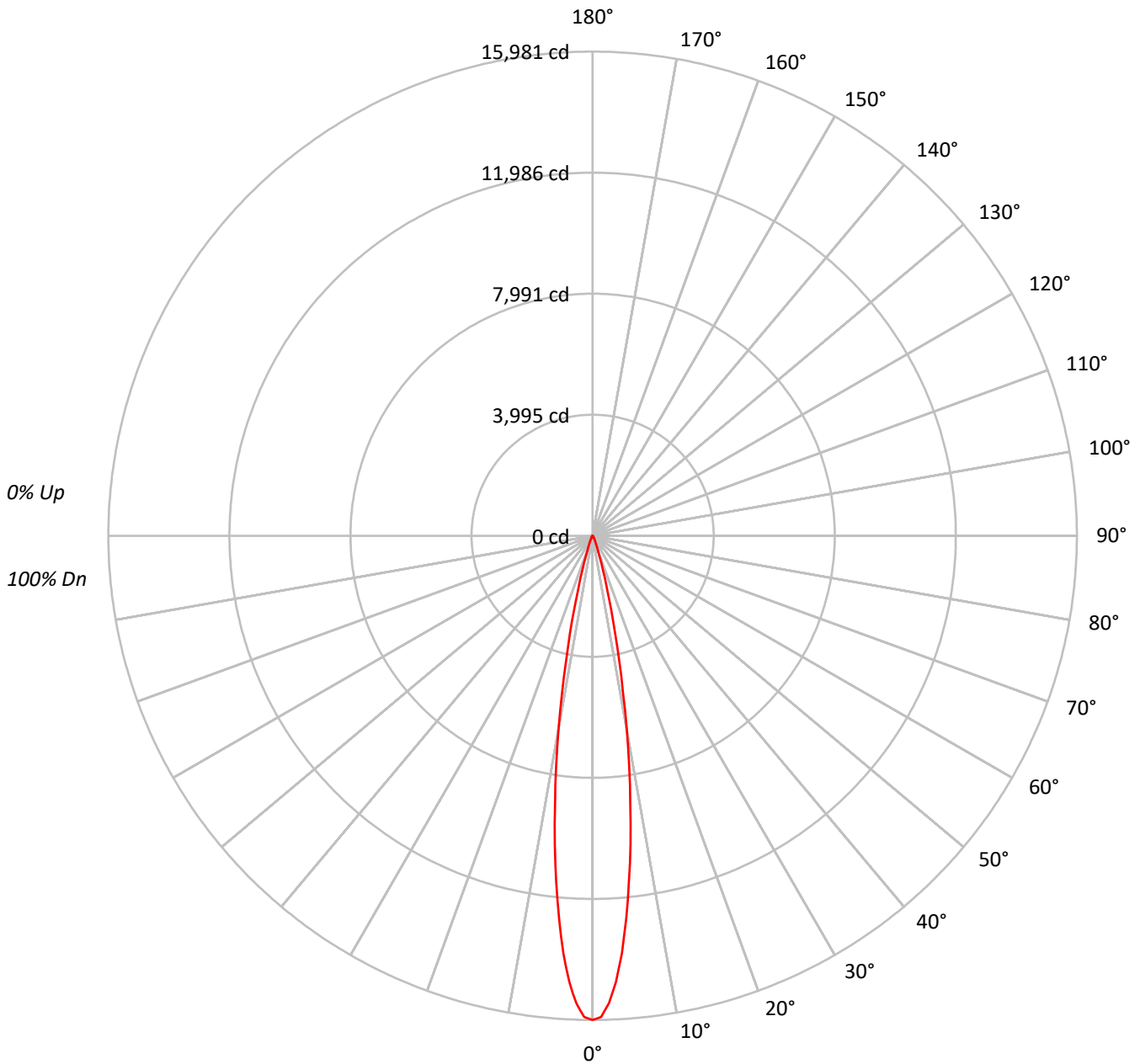
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P553819

CATALOG NUMBER: L80916WS940MB

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3504412
5°	2794336
10°	1440454
15°	434214
20°	113457
25°	42631
30°	22003
35°	12260
40°	7872
45°	5675
50°	4298
55°	3517
60°	3026
65°	2958
70°	2180
75°	0
80°	0
85°	0



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CATALOG NUMBER: L80916WS940MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1004.3	56.7
10°-20°	612.4	34.6
20°-30°	94.8	5.4
30°-40°	30.9	1.7
40°-50°	14.4	0.8
50°-60°	8.5	0.5
60°-70°	5.5	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°	1711.5	96.6
0°-40°	1742.4	98.4
0°-60°	1765.3	99.6
0°-90°	1771.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1771.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15981	
5°	12695	###
15°	1913	612
25°	176	95
35°	46	31
45°	18	14
55°	9	9
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°	15981.4
1°	15883.0
2°	15440.3
3°	14744.7
4°	13825.0
5°	12694.7
6°	11474.1
7°	10267.2
8°	8931.0
9°	7687.5
10°	6469.2
11°	5270.3
12°	4208.7
13°	3316.4
14°	2545.4
15°	1912.7
16°	1456.3
17°	1082.2
18°	826.0
19°	624.6
20°	486.2
22.5°	276.8
25°	176.2
27.5°	122.4
30°	86.9
32.5°	62.9
35°	45.8
37.5°	35.5
40°	27.5
42.5°	21.7
45°	18.3
47.5°	14.9
50°	12.6
52.5°	11.4
55°	9.2
57.5°	8.0
60°	6.9
62.5°	5.7
65°	5.7
67.5°	5.7
70°	3.4
72.5°	1.1
75°	0.0



TEST NUMBER: P553819

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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)