

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: P553811

Luminaire Tested: **L80916SP940MB**

Issue Date: 7/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P553811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-226-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L80916SP940MB  
Description: SPOT OPTIC  
Light Source: 1600 LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

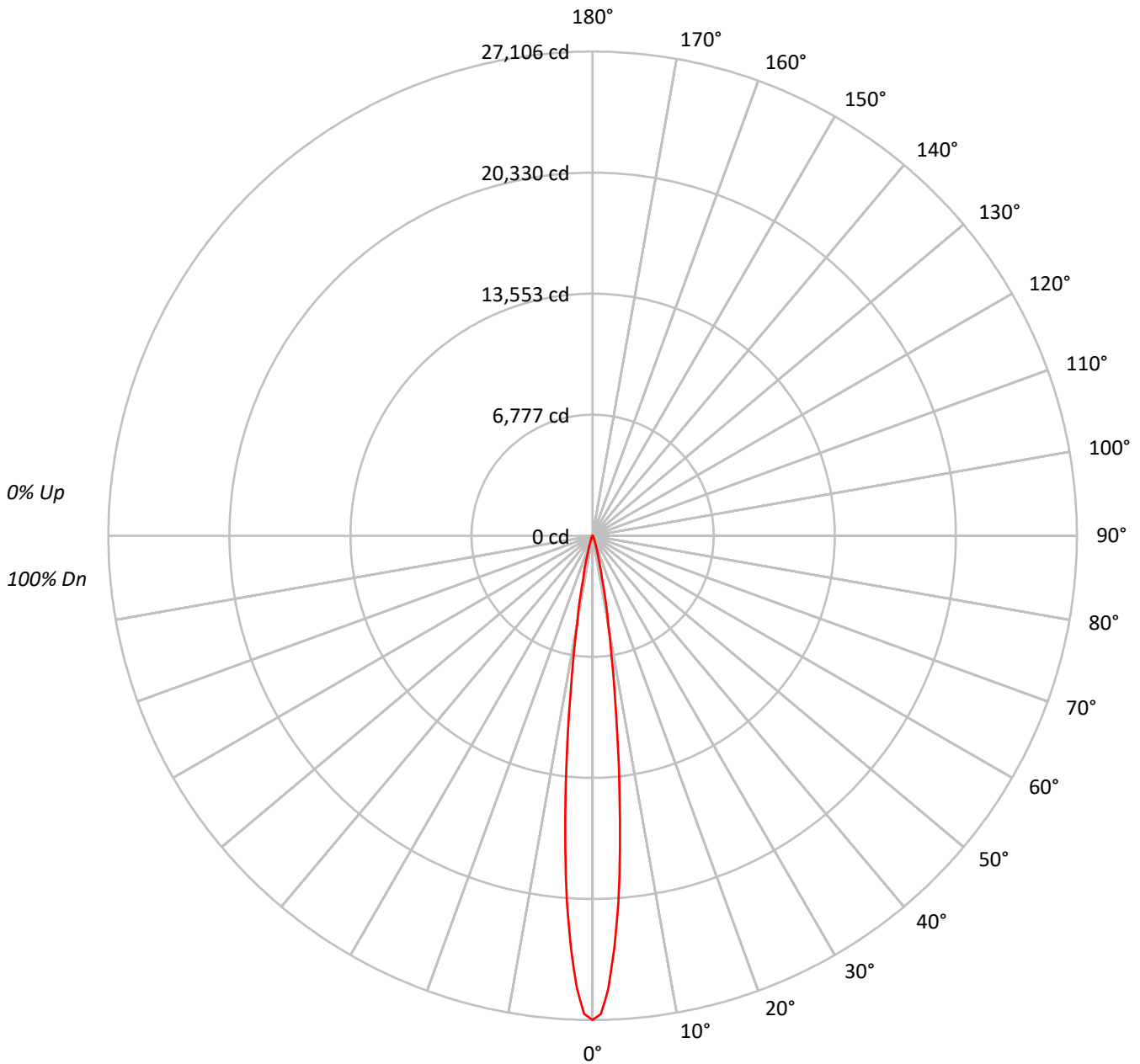
Lumens per Lamp: N/A  
Luminaire Lumens: 1797.8 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	5943910
5°	3868183
10°	1112560
15°	270921
20°	87298
25°	37091
30°	18534
35°	10708
40°	6870
45°	4962
50°	3514
55°	3058
60°	3026
65°	2958
70°	2180
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1234.5	68.7
10°-20°	432.1	24.0
20°-30°	78.7	4.4
30°-40°	26.4	1.5
40°-50°	12.5	0.7
50°-60°	7.6	0.4
60°-70°	5.2	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°	1745.4	97.1
0°-40°	1771.8	98.6
0°-60°	1791.9	99.7
0°-90°	1797.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1797.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	27106	
5°	17573	###
15°	1193	432
25°	153	79
35°	40	26
45°	16	12
55°	8	8
65°	6	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°	27106.4
1°	26783.8
2°	25341.0
3°	23112.1
4°	20576.7
5°	17573.2
6°	14440.5
7°	11513.7
8°	8839.8
9°	6752.9
10°	4996.6
12.5°	2423.3
15°	1193.4
17.5°	651.0
20°	374.1
22.5°	232.3
25°	153.3
27.5°	104.1
30°	73.2
32.5°	53.8
35°	40.0
37.5°	29.7
40°	24.0
42.5°	19.5
45°	16.0
47.5°	12.6
50°	10.3
52.5°	9.2
55°	8.0
57.5°	8.0
60°	6.9
62.5°	5.7
65°	5.7
67.5°	4.6
70°	3.4
72.5°	1.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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**CANDELA DISTRIBUTION (continued):**

	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



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







92.5°		0.0
95°		0.0



(END OF REPORT)