

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: P553808

Luminaire Tested: **L80916SP927MB**

Issue Date: 7/16/2021

Test Information

Test Method: LM-41-14
Report Number: P553808
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: L80916SP927MB
Description: SPOT OPTIC
Light Source: 1600 LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

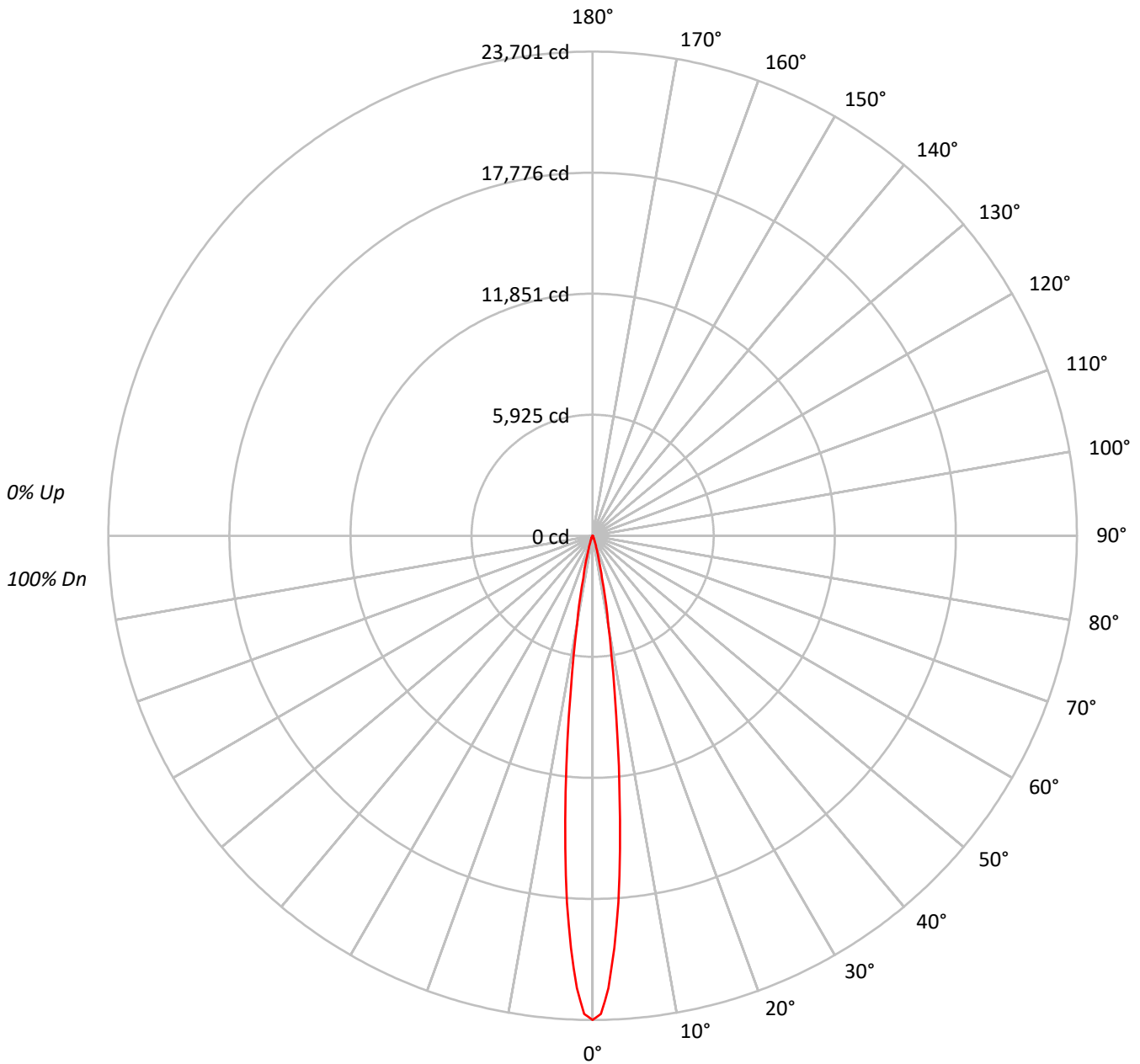
Lumens per Lamp: N/A
Luminaire Lumens: 1572.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P553808
CATALOG NUMBER: L80916SP927MB

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°	5197215
5°	3382250
10°	972794
15°	236869
20°	76330
25°	32445
30°	16205
35°	9369
40°	6011
45°	4342
50°	3070
55°	2676
60°	2631
65°	2594
70°	1923
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1079.5	68.7
10°-20°	377.9	24.0
20°-30°	68.8	4.4
30°-40°	23.1	1.5
40°-50°	10.9	0.7
50°-60°	6.6	0.4
60°-70°	4.6	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°	1526.1	97.1
0°-40°	1549.2	98.6
0°-60°	1566.7	99.7
0°-90°	1572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1572.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23701	
5°	15366	###
15°	1043	378
25°	134	69
35°	35	23
45°	14	11
55°	7	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: P553808

CATALOG NUMBER: L80916SP927MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	23701.2
1°	23419.1
2°	22157.5
3°	20208.7
4°	17991.7
5°	15365.6
6°	12626.4
7°	10067.3
8°	7729.3
9°	5904.5
10°	4368.9
12.5°	2118.9
15°	1043.4
17.5°	569.2
20°	327.1
22.5°	203.1
25°	134.1
27.5°	91.0
30°	64.0
32.5°	47.0
35°	35.0
37.5°	26.0
40°	21.0
42.5°	17.0
45°	14.0
47.5°	11.0
50°	9.0
52.5°	8.0
55°	7.0
57.5°	7.0
60°	6.0
62.5°	5.0
65°	5.0
67.5°	4.0
70°	3.0
72.5°	1.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



TEST NUMBER: P553808

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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



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— 0°-180°







92.5°		0.0
95°		0.0



(END OF REPORT)