

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 COMMERCIAL

Report Number: P583681

Luminaire Tested: **HC807D010-HM80520940-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520940-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 908.7 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

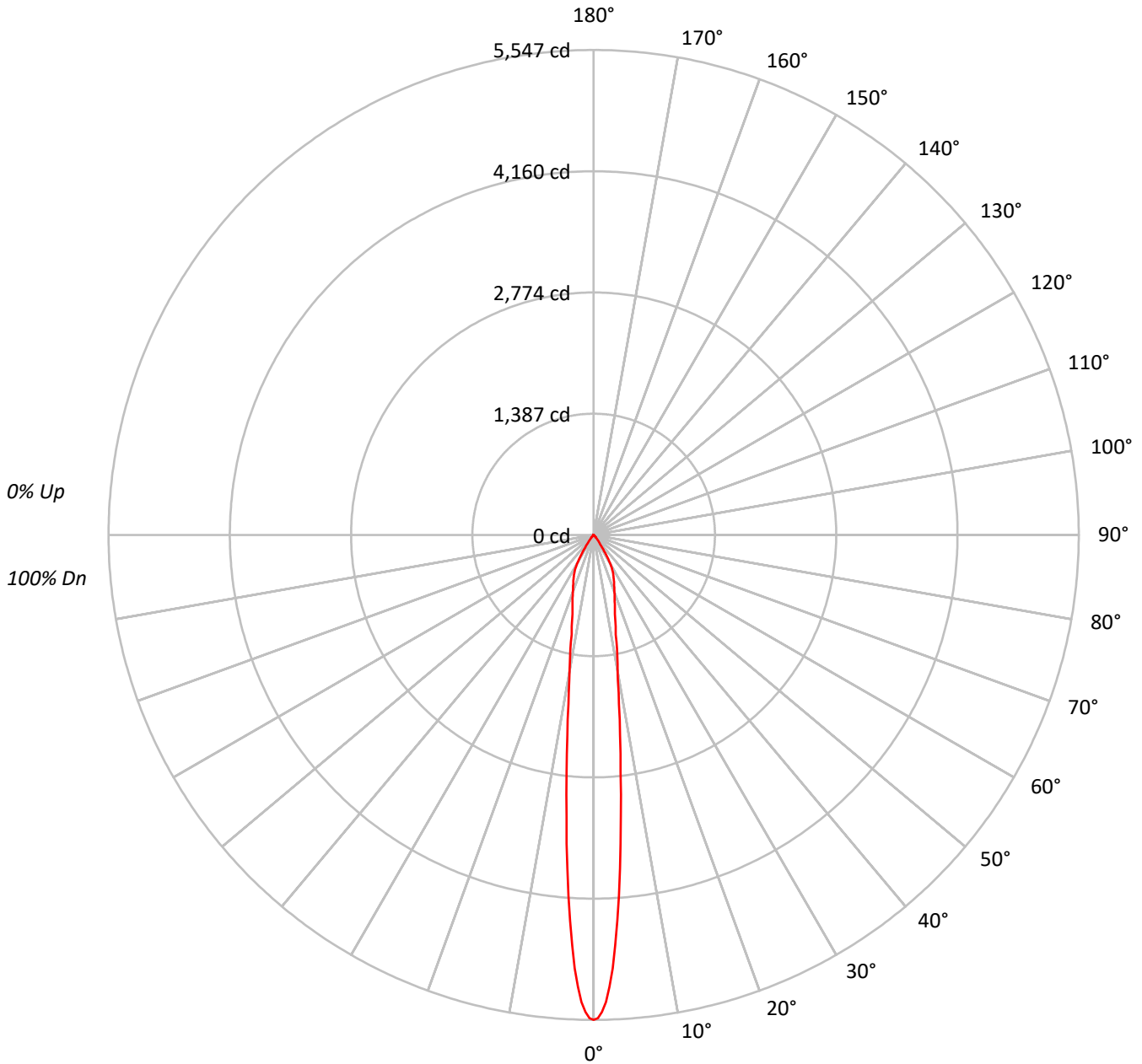
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96			96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87			87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83			83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80			80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76			76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73			73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71			71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68			68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66			66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	171049
5°	109714
10°	49561
15°	29906
20°	22787
25°	18404
30°	13484
35°	4882
40°	1824
45°	829
50°	264
55°	65
60°	37
65°	44
70°	0
75°	0
80°	107
85°	212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	29.7
10°-20°	274.6	30.2
20°-30°	245.8	27.0
30°-40°	99.0	10.9
40°-50°	16.2	1.8
50°-60°	1.5	0.2
60°-70°	0.5	0.1
70°-80°	0.4	0.0
80°-90°	0.6	0.1
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°	790.7	87.0
0°-40°	889.7	97.9
0°-60°	907.4	99.9
0°-90°	908.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	908.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5547	
5°	3544	270
15°	937	275
25°	541	246
35°	130	99
45°	19	16
55°	1	1
65°	1	1
75°	0	0
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5547.0
0.5°	5529.7
1°	5458.2
1.5°	5343.2
2°	5168.7
2.5°	4962.6
3°	4704.4
3.5°	4421.1
4°	4140.9
4.5°	3827.0
5°	3544.4
5.5°	3236.7
6°	2987.0
6.5°	2727.0
7°	2522.6
7.5°	2306.6
8°	2132.8
8.5°	1958.5
9°	1827.5
9.5°	1683.2
10°	1582.8
12.5°	1167.4
15°	936.8
17.5°	800.3
20°	694.4
22.5°	610.0
25°	540.9
27.5°	471.7
30°	378.7
32.5°	243.5
35°	129.7
37.5°	71.6
40°	45.3
42.5°	30.0
45°	19.0
47.5°	11.6
50°	5.5
52.5°	1.8
55°	1.2
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.6
80°	0.6
82.5°	0.6
85°	0.6
87.5°	0.6
90°	0.0



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— 0°-180°







67.5°		0.6
70°		0.0



(END OF REPORT)