

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: P583648

Luminaire Tested: **HC807D010-HM80520930-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520930-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 762.1 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.57
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

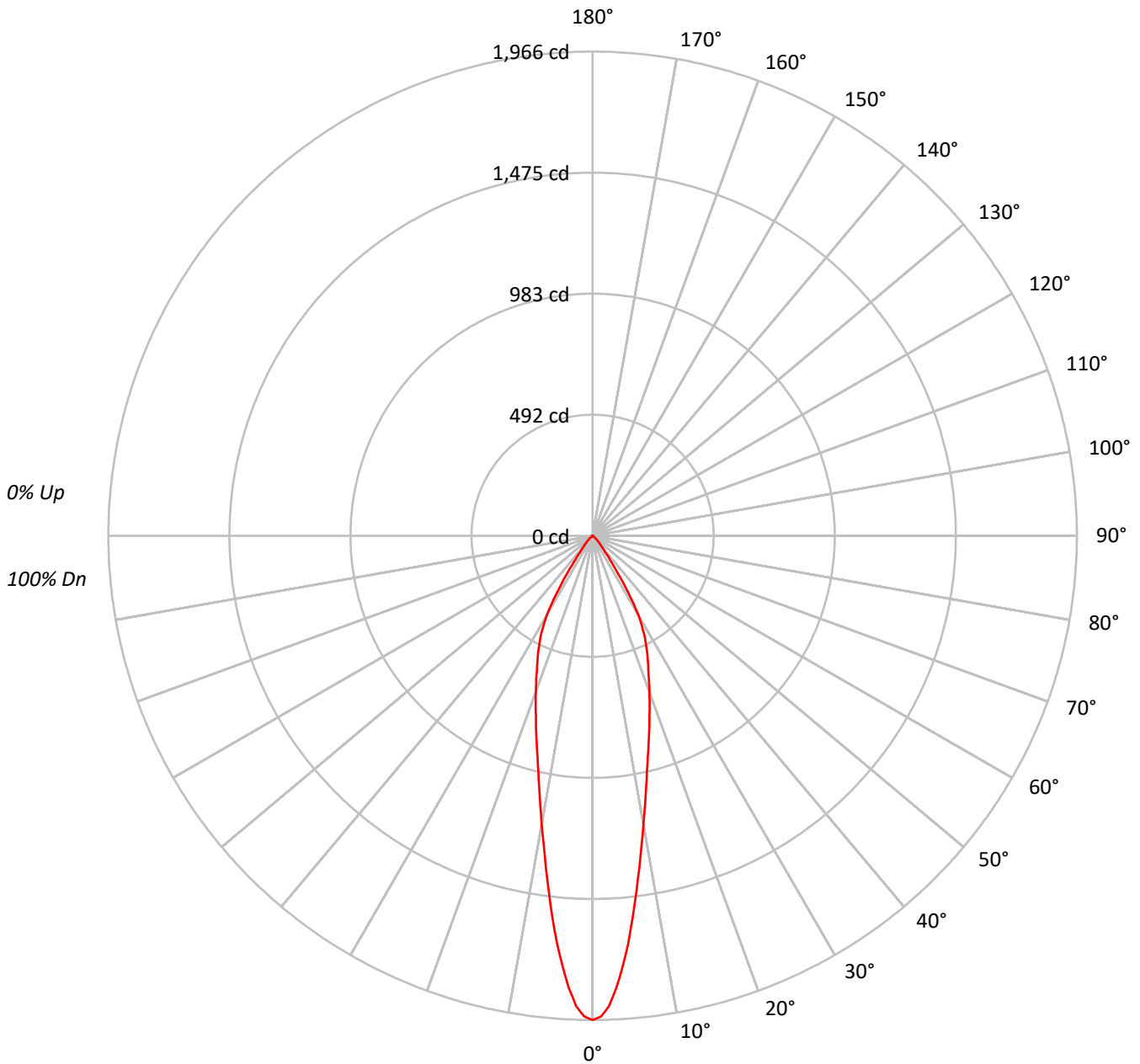
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P583648

CATALOG NUMBER: HC807D010-HM80520930-81NDH

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	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72	72	72	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68	68	68	68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65	65	65	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62	62	62	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59	59	59	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60633
5°	51368
10°	37268
15°	27991
20°	22081
25°	17812
30°	13199
35°	5349
40°	2254
45°	1208
50°	547
55°	274
60°	179
65°	124
70°	99
75°	71
80°	107
85°	212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	18.7
10°-20°	246.2	32.3
20°-30°	238.1	31.2
30°-40°	104.6	13.7
40°-50°	22.6	3.0
50°-60°	5.1	0.7
60°-70°	1.7	0.2
70°-80°	0.7	0.1
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°	626.8	82.2
0°-40°	731.4	96.0
0°-60°	759.1	99.6
0°-90°	762.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	762.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1966	
5°	1660	142
15°	877	246
25°	524	238
35°	142	105
45°	28	23
55°	5	5
65°	2	2
75°	1	1
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1966.3
1°	1951.6
2°	1911.3
3°	1838.9
4°	1752.3
5°	1659.5
6°	1558.2
7°	1456.2
8°	1360.6
9°	1271.7
10°	1190.2
11°	1113.3
12°	1044.2
13°	981.5
14°	926.0
15°	876.8
17.5°	766.4
20°	672.9
22.5°	590.9
25°	523.5
27.5°	455.1
30°	370.7
32.5°	251.9
35°	142.1
37.5°	83.8
40°	56.0
42.5°	39.7
45°	27.7
47.5°	18.2
50°	11.4
52.5°	6.8
55°	5.1
57.5°	3.9
60°	2.9
62.5°	2.3
65°	1.7
67.5°	1.1
70°	1.1
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.6



TEST NUMBER: P583648

CATALOG NUMBER: HC807D010-HM80520930-81NDH

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		0.6
87.5°		0.6



(END OF REPORT)