

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: P593879

Luminaire Tested: **HC860D010-HM86080950-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593879
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: HC860D010-HM86080950-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5658.1 lumens
Efficiency: N/A
Efficacy: 101.0 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

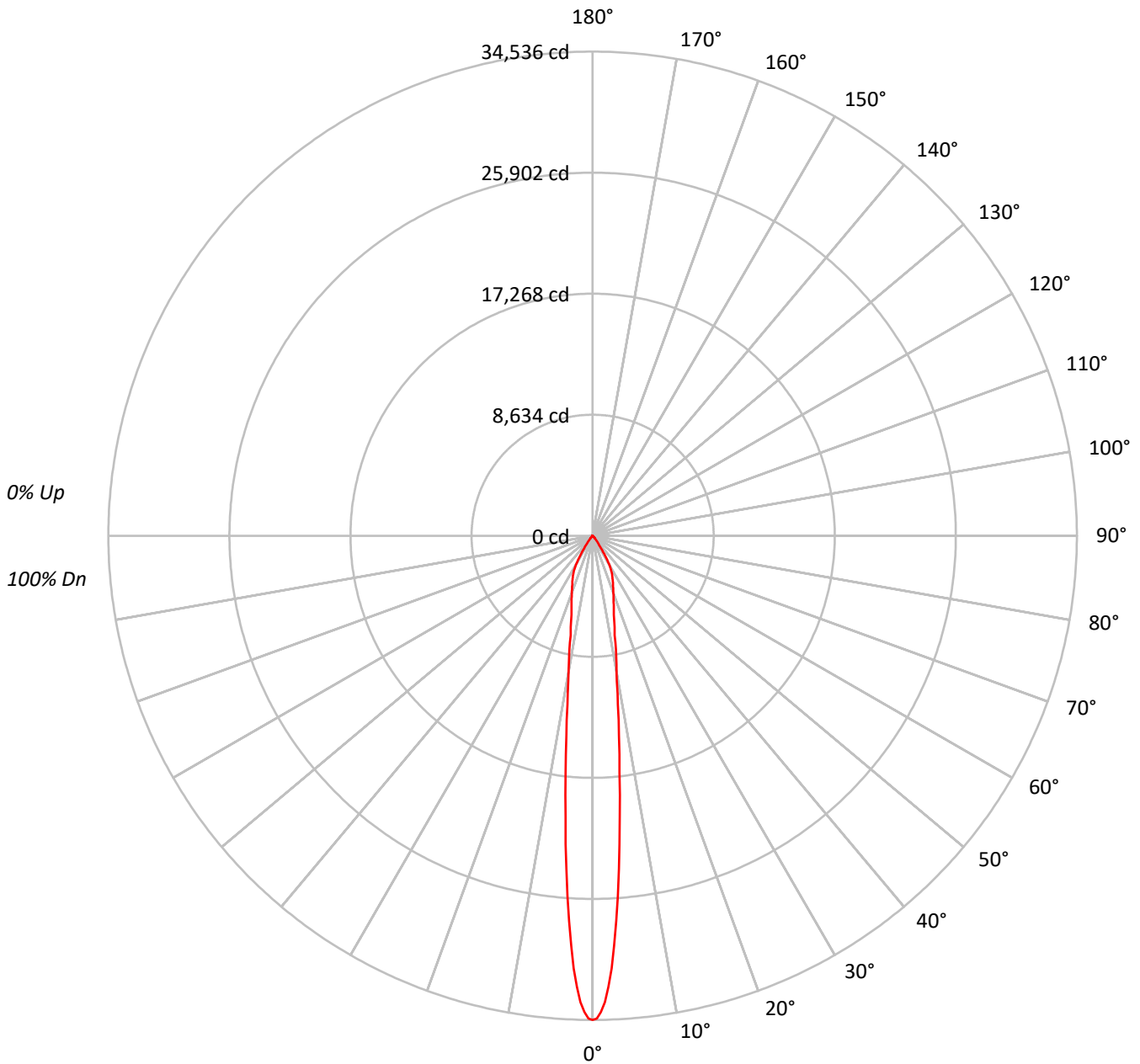
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593879

CATALOG NUMBER: HC860D010-HM86080950-81NDC

Luminous Intensity Polar Plot





TEST NUMBER: P593879

CATALOG NUMBER: HC860D010-HM86080950-81NDC

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1064975
5°	683095
10°	308580
15°	186191
20°	141887
25°	114580
30°	83961
35°	30401
40°	11348
45°	5150
50°	1645
55°	409
60°	234
65°	277
70°	0
75°	0
80°	675
85°	1344



TEST NUMBER: P593879

CATALOG NUMBER: HC860D010-HM86080950-81NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1683.1	29.7
10°-20°	1709.5	30.2
20°-30°	1530.3	27.0
30°-40°	616.4	10.9
40°-50°	101.1	1.8
50°-60°	9.2	0.2
60°-70°	3.3	0.1
70°-80°	2.5	0.0
80°-90°	3.6	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°	4923.0	87.0
0°-40°	5539.4	97.9
0°-60°	5649.6	99.9
0°-90°	5659.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5658.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	34536	
5°	22068	###
15°	5832	1710
25°	3368	1530
35°	808	616
45°	118	101
55°	8	9
65°	4	3
75°	0	3
85°	4	4
90°	0	



TEST NUMBER: P593879

CATALOG NUMBER: HC860D010-HM86080950-81NDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	34536.4
0.5°	34429.7
1°	33984.0
1.5°	33267.7
2°	32182.1
2.5°	30898.3
3°	29290.7
3.5°	27526.9
4°	25782.3
4.5°	23828.0
5°	22068.0
5.5°	20151.9
6°	18597.7
6.5°	16978.6
7°	15706.3
7.5°	14361.6
8°	13279.7
8.5°	12194.0
9°	11378.8
9.5°	10479.8
10°	9855.0
12.5°	7268.4
15°	5832.3
17.5°	4982.7
20°	4323.8
22.5°	3798.0
25°	3367.6
27.5°	2937.0
30°	2358.0
32.5°	1516.1
35°	807.6
37.5°	445.7
40°	281.9
42.5°	186.6
45°	118.1
47.5°	72.4
50°	34.3
52.5°	11.4
55°	7.6
57.5°	3.8
60°	3.8
62.5°	3.8
65°	3.8



TEST NUMBER: P593879

CATALOG NUMBER: HC860D010-HM86080950-81NDC

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	3.8
80°	3.8
82.5°	3.8
85°	3.8
87.5°	3.8
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







67.5°		3.8
70°		0.0



(END OF REPORT)