

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: P585157

Luminaire Tested: **HC860D010-HM86080935-81NDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585157
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: HC860D010-HM86080935-81NDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5001.5 lumens
Efficiency: N/A
Efficacy: 89.3 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

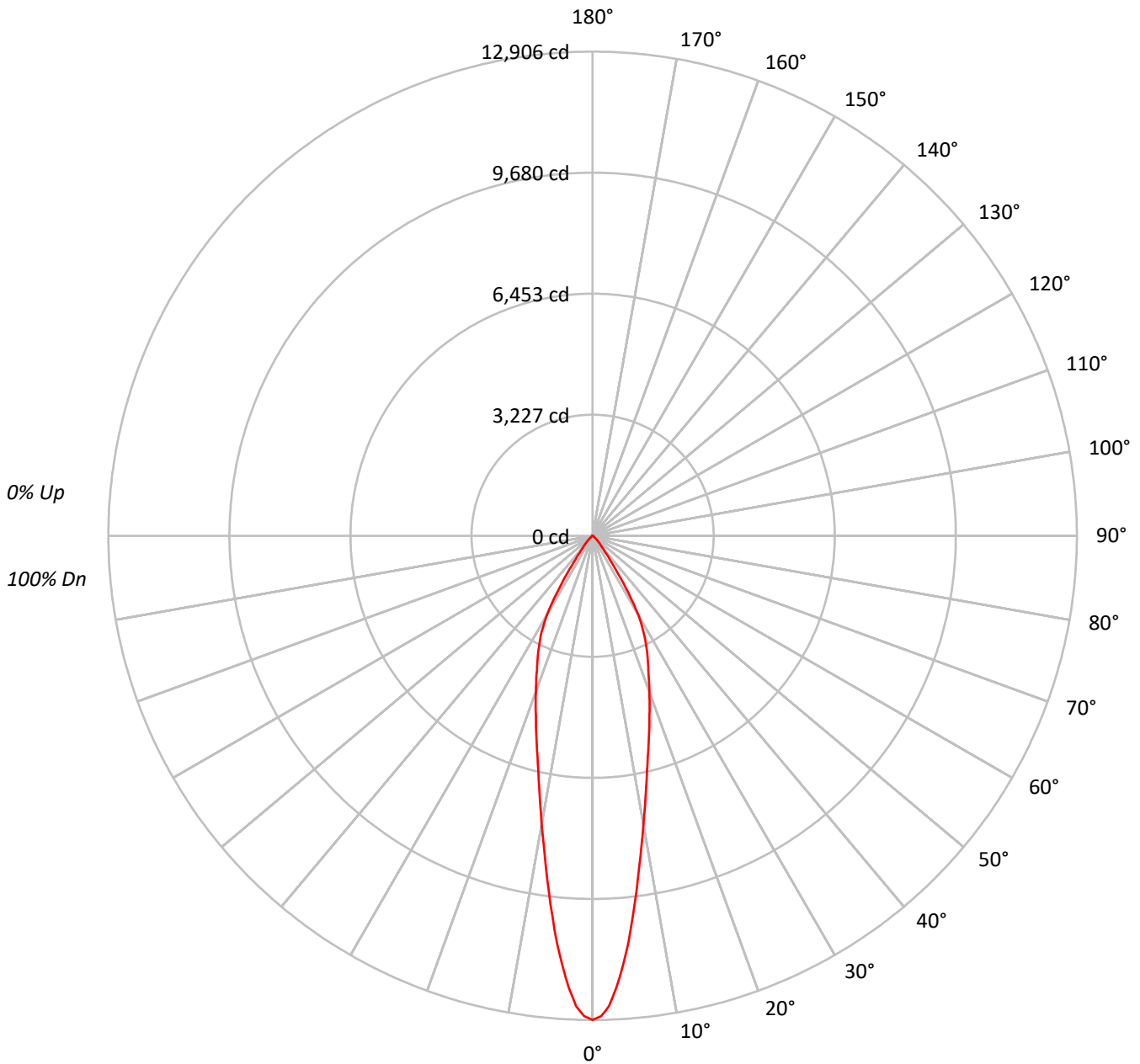
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585157

CATALOG NUMBER: HC860D010-HM86080935-81NDH

Luminous Intensity Polar Plot





TEST NUMBER: P585157

CATALOG NUMBER: HC860D010-HM86080935-81NDH

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			
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			
3	104	99	94	91	102	97	93	90	95	91	88	92	90	87	90	88	86	84			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80			
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75			
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72			
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68			
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65			
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62			
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	397973
5°	337168
10°	244631
15°	183707
20°	144952
25°	116920
30°	86642
35°	35103
40°	14805
45°	7937
50°	3564
55°	1796
60°	1147
65°	817
70°	667
75°	441
80°	657
85°	1309



TEST NUMBER: P585157

CATALOG NUMBER: HC860D010-HM86080935-81NDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	935.2	18.7
10°-20°	1616.3	32.3
20°-30°	1562.6	31.2
30°-40°	686.3	13.7
40°-50°	148.4	3.0
50°-60°	33.3	0.7
60°-70°	11.5	0.2
70°-80°	4.4	0.1
80°-90°	3.5	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°	4114.1	82.3
0°-40°	4800.5	96.0
0°-60°	4982.1	99.6
0°-90°	5001.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5001.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12906	
5°	10892	935
15°	5754	1616
25°	3436	1563
35°	932	686
45°	182	148
55°	33	33
65°	11	11
75°	4	4
85°	4	4
90°	0	



TEST NUMBER: P585157

CATALOG NUMBER: HC860D010-HM86080935-81NDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	12906.0
1°	12809.4
2°	12545.6
3°	12070.1
4°	11501.7
5°	10892.5
6°	10227.4
7°	9558.7
8°	8930.9
9°	8347.6
10°	7812.7
11°	7307.5
12°	6854.2
13°	6441.9
14°	6077.7
15°	5754.5
17.5°	5030.1
20°	4417.2
22.5°	3878.4
25°	3436.4
27.5°	2986.8
30°	2433.3
32.5°	1653.2
35°	932.5
37.5°	549.8
40°	367.8
42.5°	260.1
45°	182.0
47.5°	118.9
50°	74.3
52.5°	44.6
55°	33.4
57.5°	26.0
60°	18.6
62.5°	14.9
65°	11.2
67.5°	7.4
70°	7.4
72.5°	3.7
75°	3.7
77.5°	3.7
80°	3.7
82.5°	3.7



TEST NUMBER: P585157

CATALOG NUMBER: HC860D010-HM86080935-81NDH

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







85°	3.7
87.5°	3.7



(END OF REPORT)