

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: P585137

Luminaire Tested: **HC860D010-HM86080930-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080930-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4798.2 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

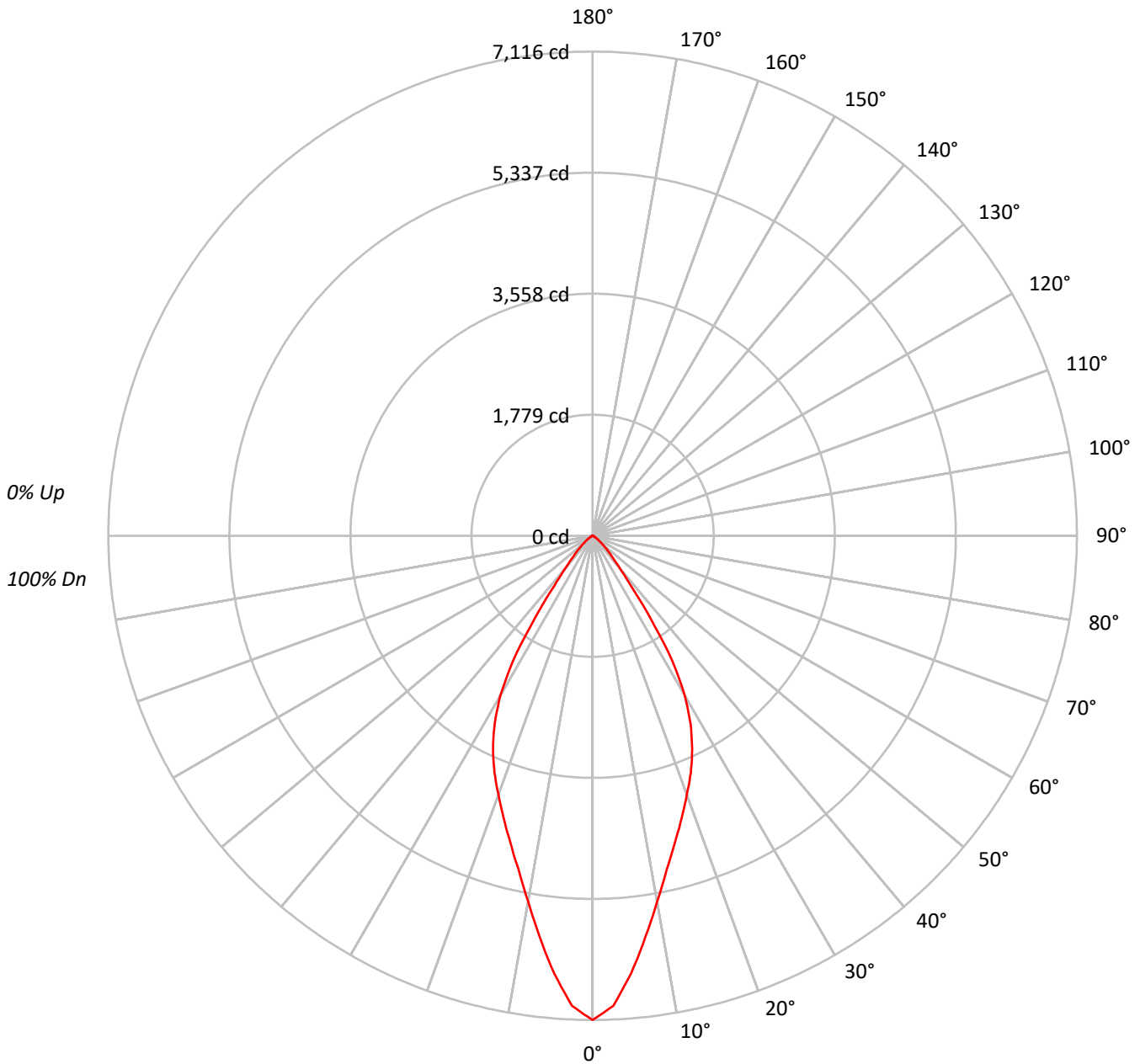
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585137

CATALOG NUMBER: HC860D010-HM86080930-81MDH

Luminous Intensity Polar Plot





TEST NUMBER: P585137

CATALOG NUMBER: HC860D010-HM86080930-81MDH

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94		
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87		
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81		
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76		
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71		
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66		
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62		
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58		
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55		
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	219437
5°	199970
10°	170857
15°	148999
20°	132800
25°	117802
30°	96451
35°	55386
40°	24579
45°	14304
50°	8256
55°	4715
60°	2603
65°	1656
70°	1172
75°	774
80°	568
85°	1132



TEST NUMBER: P585137

CATALOG NUMBER: HC860D010-HM86080930-81MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.8	12.2
10°-20°	1311.9	27.3
20°-30°	1570.4	32.7
30°-40°	950.0	19.8
40°-50°	266.3	5.5
50°-60°	82.7	1.7
60°-70°	23.6	0.5
70°-80°	6.4	0.1
80°-90°	2.2	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°	3467.1	72.3
0°-40°	4417.1	92.1
0°-60°	4766.1	99.3
0°-90°	4798.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4798.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7116	
5°	6460	585
15°	4667	1312
25°	3462	1570
35°	1471	950
45°	328	266
55°	88	83
65°	23	24
75°	6	6
85°	3	2
90°	0	



TEST NUMBER: P585137

CATALOG NUMBER: HC860D010-HM86080930-81MDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	7116.2
2.5°	6914.9
5°	6460.2
7.5°	5947.0
10°	5456.6
12.5°	5027.8
15°	4667.3
17.5°	4349.0
20°	4046.9
22.5°	3767.6
25°	3462.3
27.5°	3118.0
30°	2708.8
32.5°	2179.3
35°	1471.3
37.5°	915.9
40°	610.6
42.5°	438.5
45°	328.0
47.5°	240.4
50°	172.1
52.5°	120.2
55°	87.7
57.5°	58.5
60°	42.2
62.5°	29.2
65°	22.7
67.5°	16.3
70°	13.0
72.5°	6.5
75°	6.5
77.5°	3.2
80°	3.2
82.5°	3.2
85°	3.2
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)