

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: P593063

Luminaire Tested: **HC610D010-HM60525850-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC610D010-HM60525850-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1158.9 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

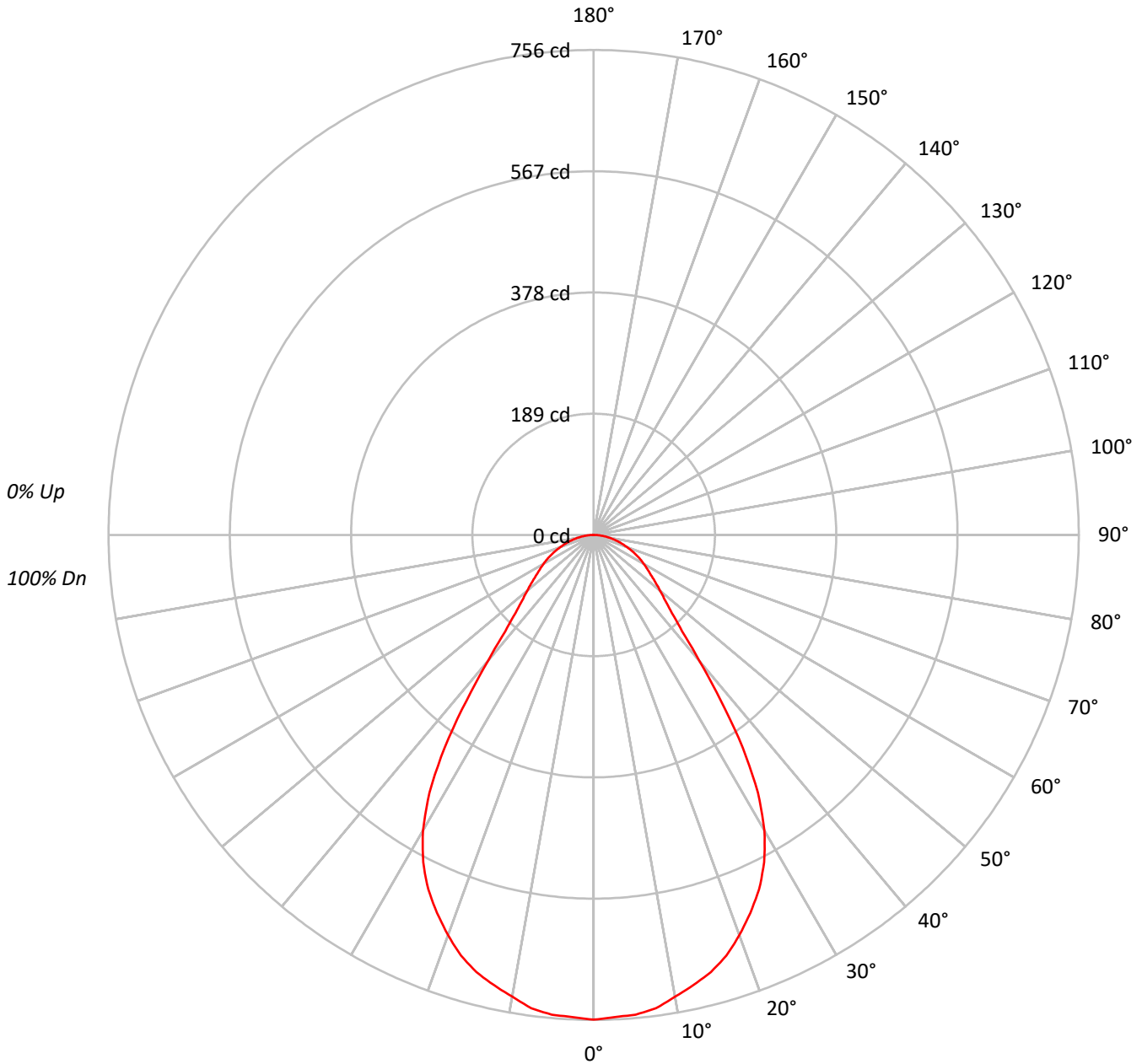
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	41422
5°	41311
10°	40692
15°	40051
20°	38731
25°	36891
30°	33689
35°	27124
40°	18277
45°	13335
50°	11513
55°	10408
60°	9879
65°	9340
70°	8800
75°	8324
80°	7766
85°	7170



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.0	6.1
10°-20°	198.2	17.1
20°-30°	278.4	24.0
30°-40°	247.9	21.4
40°-50°	138.5	12.0
50°-60°	98.7	8.5
60°-70°	71.8	6.2
70°-80°	41.6	3.6
80°-90°	12.9	1.1
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°	547.7	47.3
0°-40°	795.5	68.6
0°-60°	1032.7	89.1
0°-90°	1158.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1158.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	756	
5°	751	71
15°	706	198
25°	610	278
35°	405	248
45°	172	139
55°	109	99
65°	72	72
75°	39	42
85°	11	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	755.6
2.5°	752.3
5°	750.7
7.5°	744.2
10°	731.0
12.5°	718.8
15°	705.7
17.5°	687.7
20°	663.9
22.5°	637.8
25°	609.9
27.5°	575.5
30°	532.2
32.5°	476.5
35°	405.3
37.5°	325.0
40°	255.4
42.5°	203.9
45°	172.0
47.5°	150.7
50°	135.0
52.5°	121.1
55°	108.9
57.5°	99.0
60°	90.1
62.5°	81.8
65°	72.0
67.5°	63.8
70°	54.9
72.5°	46.6
75°	39.3
77.5°	31.9
80°	24.6
82.5°	18.0
85°	11.4
87.5°	5.8
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report







— 0°-180°







(END OF REPORT)