

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: P582924

Luminaire Tested: **HC605D010-HM60525927-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC605D010-HM60525927-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 510.2 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

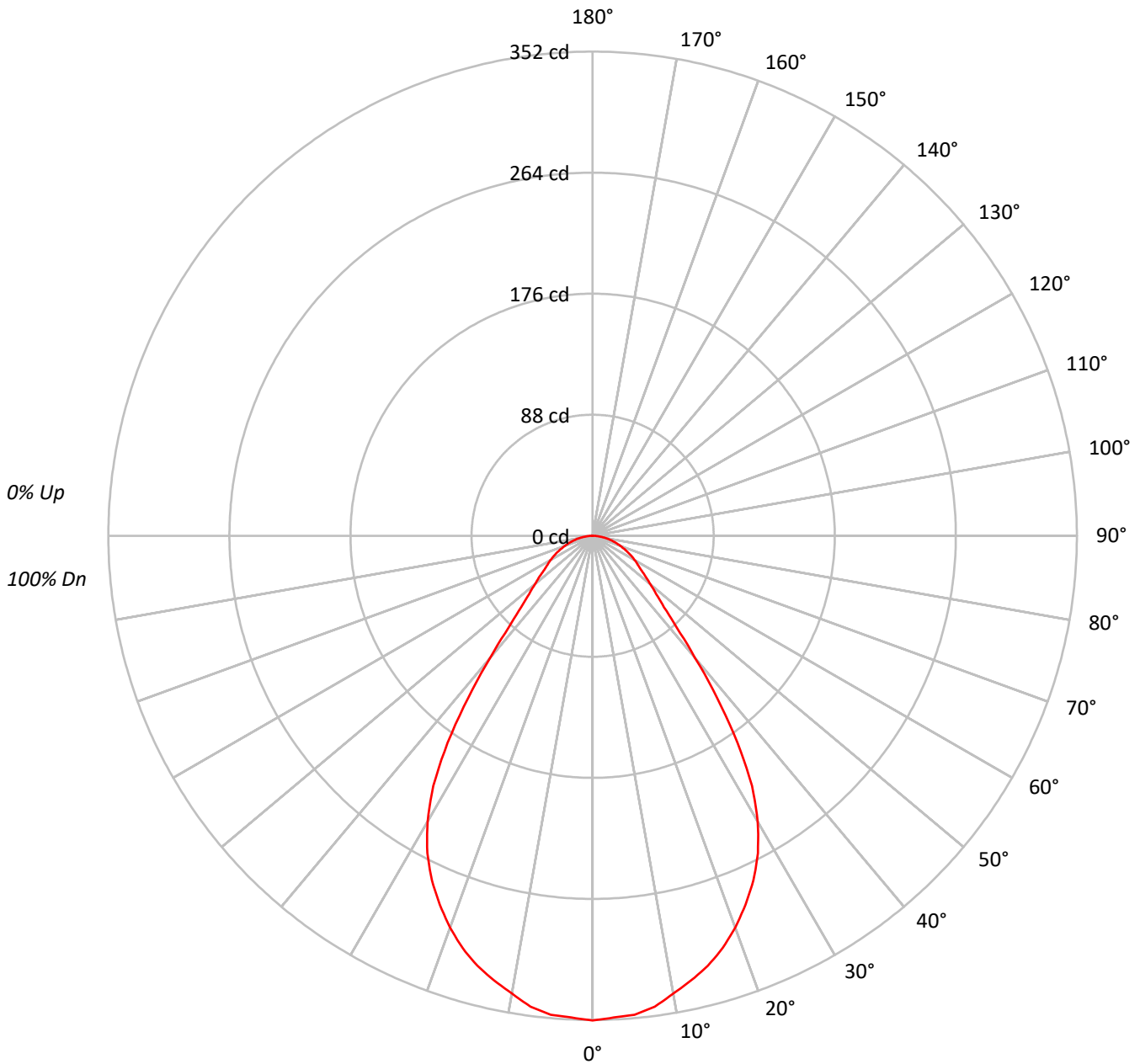
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

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

	0°
0°	19319
5°	19233
10°	18809
15°	18366
20°	17677
25°	16719
30°	15192
35°	12294
40°	8287
45°	5691
50°	4674
55°	4081
60°	3870
65°	3645
70°	3430
75°	3262
80°	2968
85°	2642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.0	6.5
10°-20°	90.9	17.8
20°-30°	126.3	24.7
30°-40°	112.4	22.0
40°-50°	59.6	11.7
50°-60°	39.0	7.6
60°-70°	28.0	5.5
70°-80°	16.2	3.2
80°-90°	4.8	0.9
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°	250.1	49.0
0°-40°	362.5	71.1
0°-60°	461.2	90.4
0°-90°	510.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	510.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	352	
5°	350	33
15°	324	91
25°	276	126
35°	184	112
45°	73	60
55°	43	39
65°	28	28
75°	15	16
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	352.4
2.5°	350.6
5°	349.5
7.5°	345.3
10°	337.9
12.5°	331.1
15°	323.6
17.5°	314.3
20°	303.0
22.5°	290.3
25°	276.4
27.5°	260.2
30°	240.0
32.5°	215.6
35°	183.7
37.5°	148.5
40°	115.8
42.5°	89.9
45°	73.4
47.5°	62.6
50°	54.8
52.5°	48.4
55°	42.7
57.5°	38.6
60°	35.3
62.5°	31.9
65°	28.1
67.5°	24.7
70°	21.4
72.5°	18.4
75°	15.4
77.5°	12.4
80°	9.4
82.5°	6.8
85°	4.2
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)