

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: P593116

Luminaire Tested: **HC615D010-HM60525950-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593116  
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: HC615D010-HM60525950-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1326.1 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

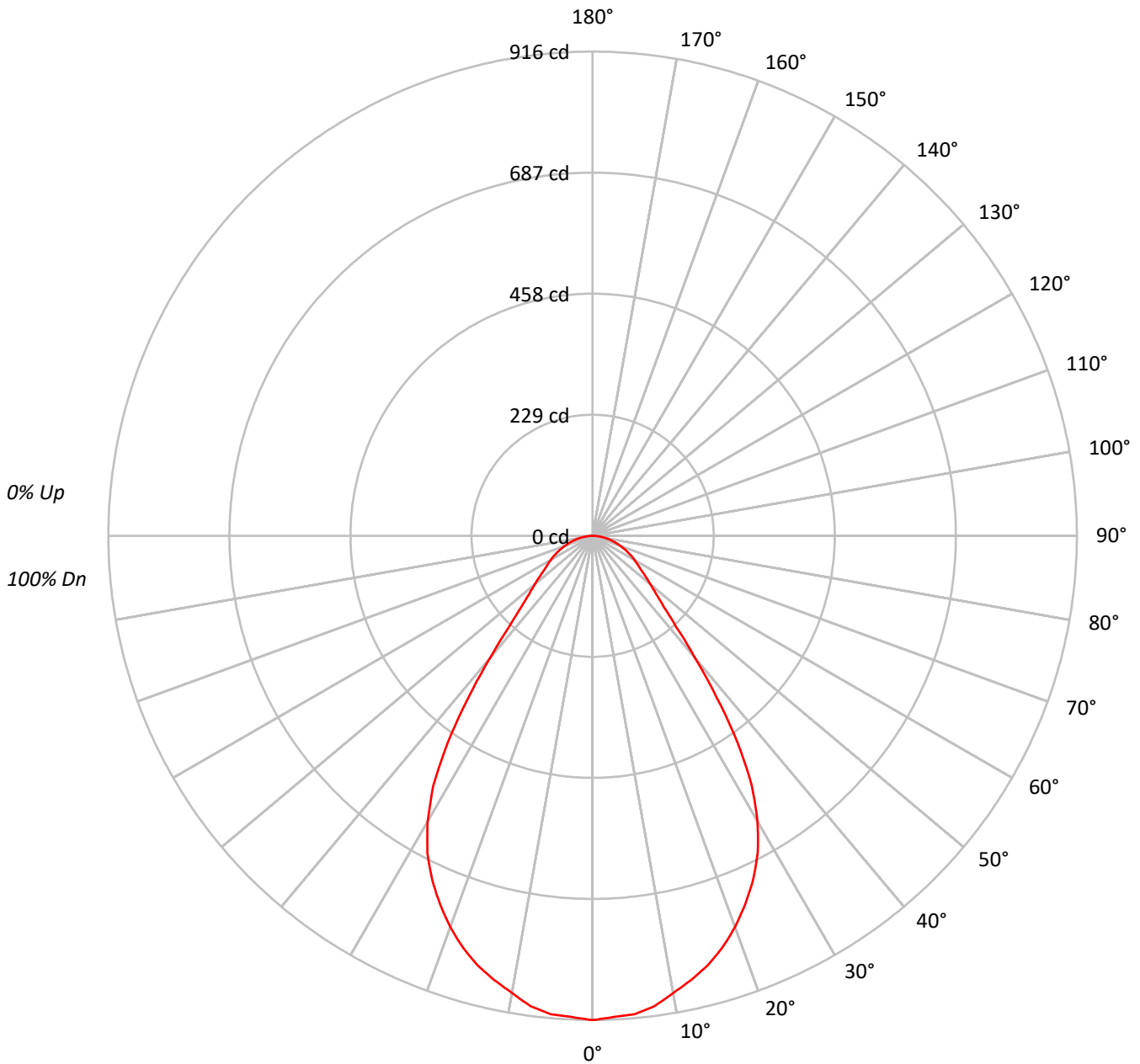
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	50226
5°	49994
10°	48880
15°	47736
20°	45947
25°	43448
30°	39487
35°	31962
40°	21555
45°	14808
50°	12136
55°	10618
60°	10043
65°	9482
70°	8896
75°	8472
80°	7703
85°	6730



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.8	6.5
10°-20°	236.2	17.8
20°-30°	328.2	24.7
30°-40°	292.2	22.0
40°-50°	155.1	11.7
50°-60°	101.4	7.6
60°-70°	72.7	5.5
70°-80°	42.2	3.2
80°-90°	12.4	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°	650.2	49.0
0°-40°	942.4	71.1
0°-60°	1198.9	90.4
0°-90°	1326.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1326.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	916	
5°	908	86
15°	841	236
25°	718	328
35°	478	292
45°	191	155
55°	111	101
65°	73	73
75°	40	42
85°	11	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	916.2
2.5°	911.3
5°	908.5
7.5°	897.7
10°	878.1
12.5°	860.7
15°	841.1
17.5°	816.7
20°	787.6
22.5°	754.4
25°	718.3
27.5°	676.5
30°	623.8
32.5°	560.5
35°	477.6
37.5°	386.0
40°	301.2
42.5°	233.9
45°	191.0
47.5°	162.8
50°	142.3
52.5°	125.8
55°	111.1
57.5°	100.4
60°	91.6
62.5°	82.9
65°	73.1
67.5°	64.4
70°	55.5
72.5°	47.8
75°	40.0
77.5°	32.1
80°	24.4
82.5°	17.6
85°	10.7
87.5°	4.9
90°	0.0



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— 0°-180°







(END OF REPORT)