

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: P582493

Luminaire Tested: **HC640D010-HM63040927-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582493  
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: HC640D010-HM63040927-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3377.0 lumens  
Efficiency: N/A  
Efficacy: 82.4 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

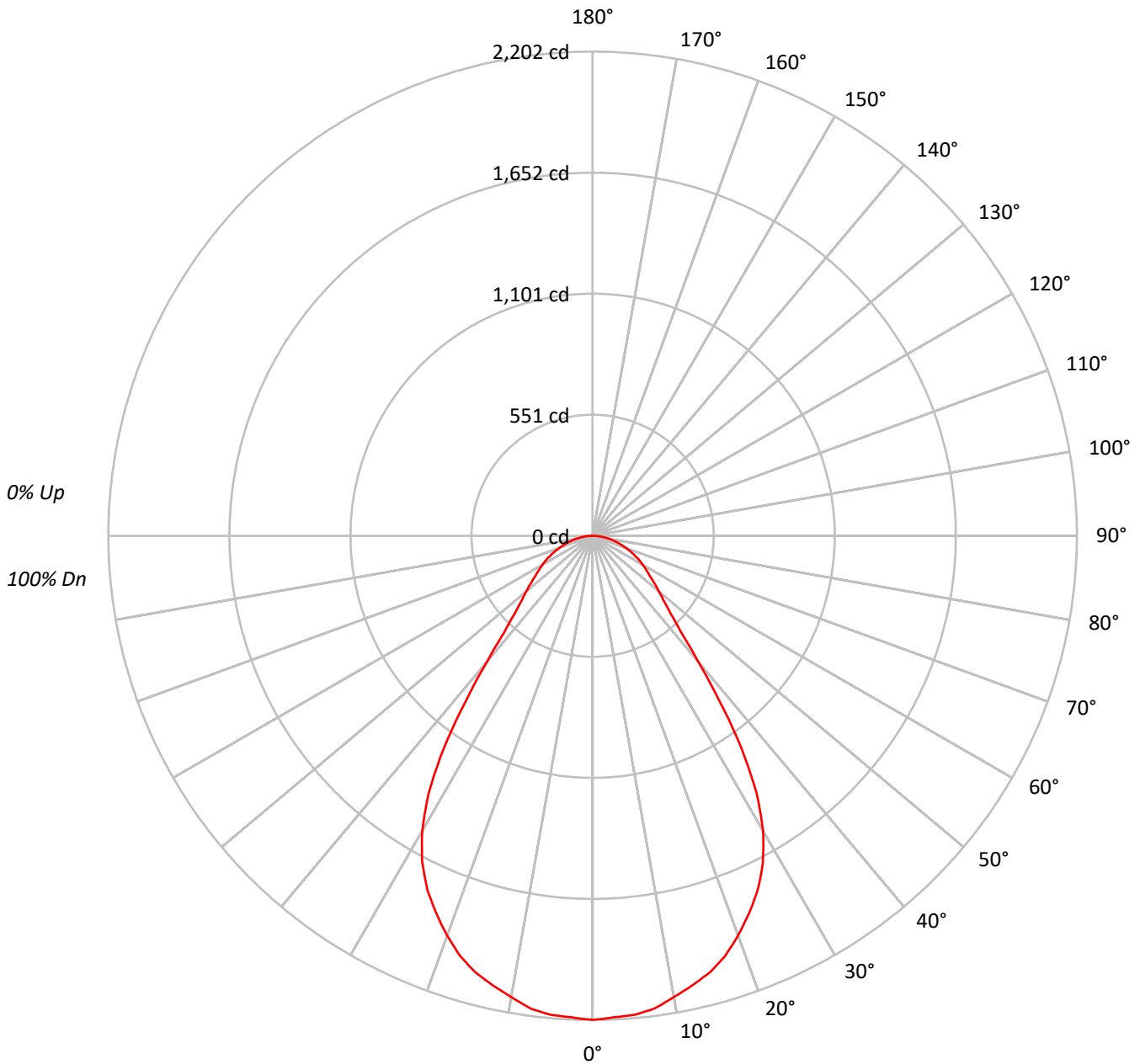
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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°	120698
5°	120372
10°	118579
15°	116698
20°	112861
25°	107492
30°	98148
35°	79023
40°	53264
45°	38841
50°	33568
55°	30317
60°	28759
65°	27227
70°	25629
75°	24252
80°	22604
85°	21008



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.0	6.1
10°-20°	577.4	17.1
20°-30°	811.3	24.0
30°-40°	722.1	21.4
40°-50°	403.6	12.0
50°-60°	287.5	8.5
60°-70°	209.2	6.2
70°-80°	121.1	3.6
80°-90°	37.7	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°	1595.7	47.3
0°-40°	2317.9	68.6
0°-60°	3009.0	89.1
0°-90°	3377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2202	
5°	2187	207
15°	2056	577
25°	1777	811
35°	1181	722
45°	501	404
55°	317	288
65°	210	209
75°	114	121
85°	33	38
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2201.7
2.5°	2192.2
5°	2187.4
7.5°	2168.3
10°	2130.2
12.5°	2094.4
15°	2056.2
17.5°	2003.7
20°	1934.6
22.5°	1858.2
25°	1777.1
27.5°	1677.0
30°	1550.5
32.5°	1388.2
35°	1180.8
37.5°	947.0
40°	744.3
42.5°	593.9
45°	501.0
47.5°	439.0
50°	393.6
52.5°	353.1
55°	317.2
57.5°	288.6
60°	262.3
62.5°	238.6
65°	209.9
67.5°	186.1
70°	159.9
72.5°	136.0
75°	114.5
77.5°	93.0
80°	71.6
82.5°	52.5
85°	33.4
87.5°	16.8
90°	0.0



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— 0°-180°







(END OF REPORT)