

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: P582456

Luminaire Tested: **HC640D010-HM63040835-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582456  
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: HC640D010-HM63040835-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4279.7 lumens  
Efficiency: N/A  
Efficacy: 104.4 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

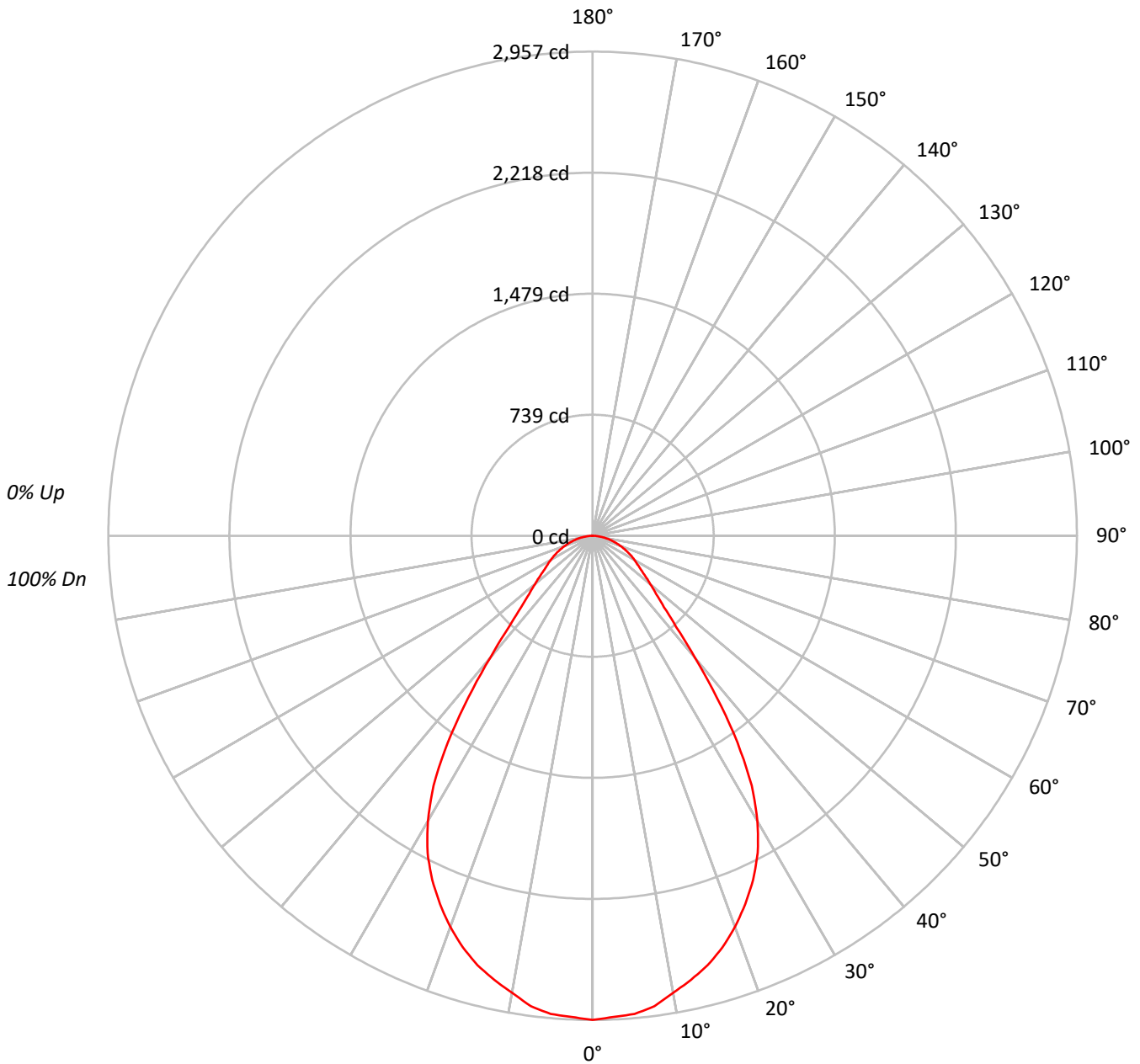
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582456

CATALOG NUMBER: HC640D010-HM63040835-61NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582456

CATALOG NUMBER: HC640D010-HM63040835-61NDW

**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°	162092
5°	161330
10°	157763
15°	154064
20°	148273
25°	140228
30°	127437
35°	103155
40°	69559
45°	47796
50°	39171
55°	34274
60°	32421
65°	30613
70°	28739
75°	27323
80°	24814
85°	21763



TEST NUMBER: P582456

CATALOG NUMBER: HC640D010-HM63040835-61NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.8	6.5
10°-20°	762.3	17.8
20°-30°	1059.1	24.7
30°-40°	943.0	22.0
40°-50°	500.6	11.7
50°-60°	327.3	7.6
60°-70°	234.6	5.5
70°-80°	136.1	3.2
80°-90°	39.8	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°	2098.2	49.0
0°-40°	3041.2	71.1
0°-60°	3869.2	90.4
0°-90°	4279.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4279.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2957	
5°	2932	277
15°	2715	762
25°	2318	1059
35°	1541	943
45°	616	501
55°	359	327
65°	236	235
75°	129	136
85°	35	40
90°	0	



TEST NUMBER: P582456

CATALOG NUMBER: HC640D010-HM63040835-61NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2956.8
2.5°	2941.1
5°	2931.7
7.5°	2897.1
10°	2834.1
12.5°	2777.6
15°	2714.6
17.5°	2636.0
20°	2541.6
22.5°	2434.6
25°	2318.3
27.5°	2183.1
30°	2013.2
32.5°	1808.7
35°	1541.4
37.5°	1245.7
40°	972.0
42.5°	755.0
45°	616.5
47.5°	525.4
50°	459.3
52.5°	405.7
55°	358.6
57.5°	323.9
60°	295.7
62.5°	267.4
65°	236.0
67.5°	207.6
70°	179.3
72.5°	154.2
75°	129.0
77.5°	103.8
80°	78.6
82.5°	56.6
85°	34.6
87.5°	15.7
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)