

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: P582464

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC640D010-HM63040835-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4946.2 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

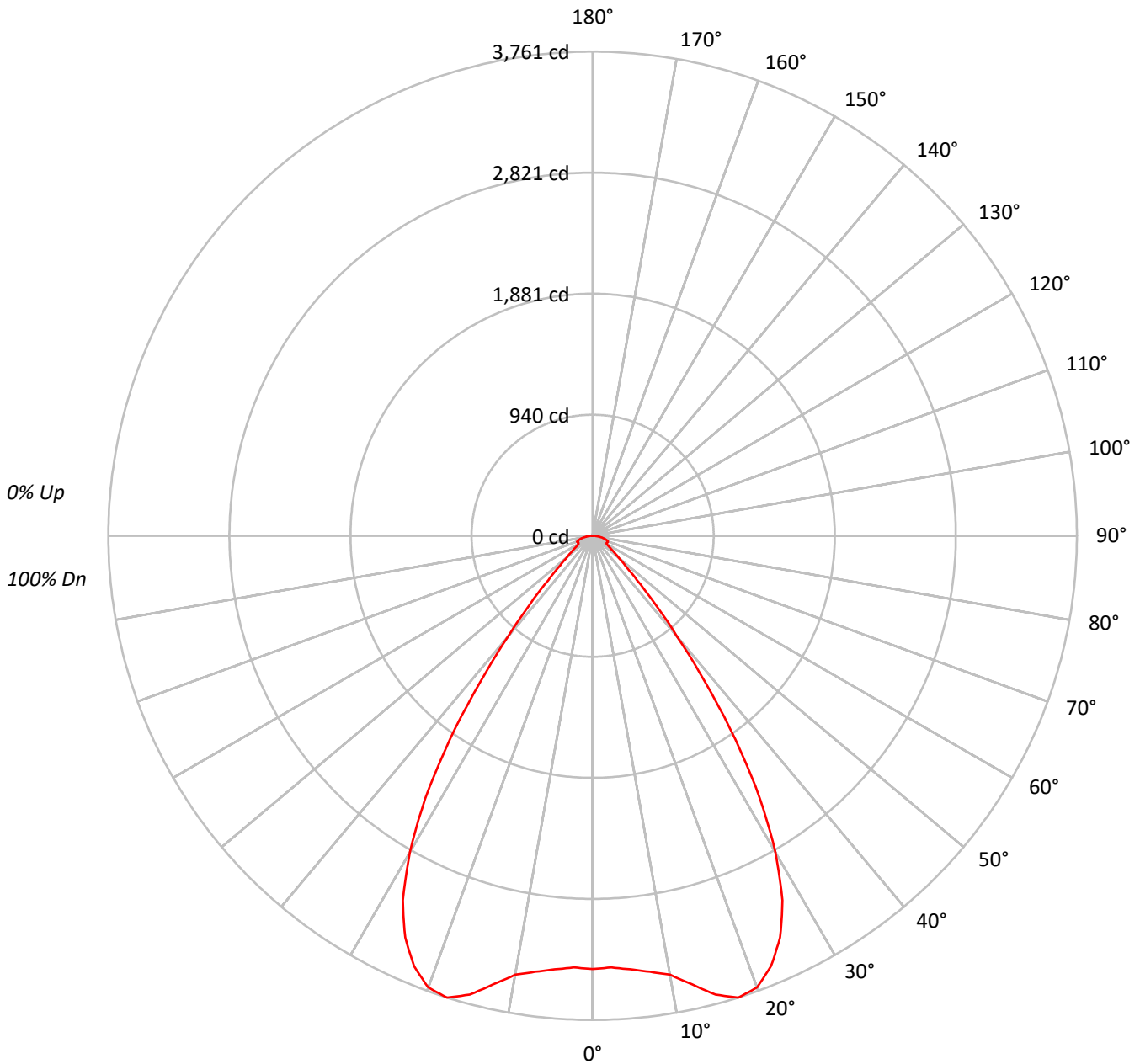
Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582464

CATALOG NUMBER: HC640D010-HM63040835-61WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P582464

CATALOG NUMBER: HC640D010-HM63040835-61WDWB

**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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

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

	0°
0°	184481
5°	186049
10°	192749
15°	209371
20°	217789
25°	208306
30°	179768
35°	129443
40°	72915
45°	37795
50°	22532
55°	16238
60°	13793
65°	15916
70°	20164
75°	21308
80°	20868
85°	19750



TEST NUMBER: P582464

CATALOG NUMBER: HC640D010-HM63040835-61WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.3	6.6
10°-20°	1040.5	21.0
20°-30°	1555.2	31.4
30°-40°	1188.8	24.0
40°-50°	415.3	8.4
50°-60°	158.3	3.2
60°-70°	124.2	2.5
70°-80°	105.0	2.1
80°-90°	33.8	0.7
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°	2921.0	59.1
0°-40°	4109.8	83.1
0°-60°	4683.4	94.7
0°-90°	4946.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4946.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3365	
5°	3381	325
15°	3689	1040
25°	3444	1555
35°	1934	1189
45°	488	415
55°	170	158
65°	123	124
75°	101	105
85°	31	34
90°	0	



TEST NUMBER: P582464

CATALOG NUMBER: HC640D010-HM63040835-61WDWB

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3365.2
2.5°	3355.8
5°	3380.9
7.5°	3415.6
10°	3462.6
12.5°	3569.6
15°	3689.1
17.5°	3761.4
20°	3733.2
22.5°	3619.9
25°	3443.8
27.5°	3192.2
30°	2839.9
32.5°	2418.5
35°	1934.2
37.5°	1434.1
40°	1018.9
42.5°	714.0
45°	487.5
47.5°	342.8
50°	264.2
52.5°	207.6
55°	169.9
57.5°	138.4
60°	125.8
62.5°	122.7
65°	122.7
67.5°	129.0
70°	125.8
72.5°	116.3
75°	100.6
77.5°	84.9
80°	66.1
82.5°	47.2
85°	31.4
87.5°	12.5
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)