

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: P583201

Luminaire Tested: **HC660D010-HM64560840-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC660D010-HM64560840-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6049.7 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

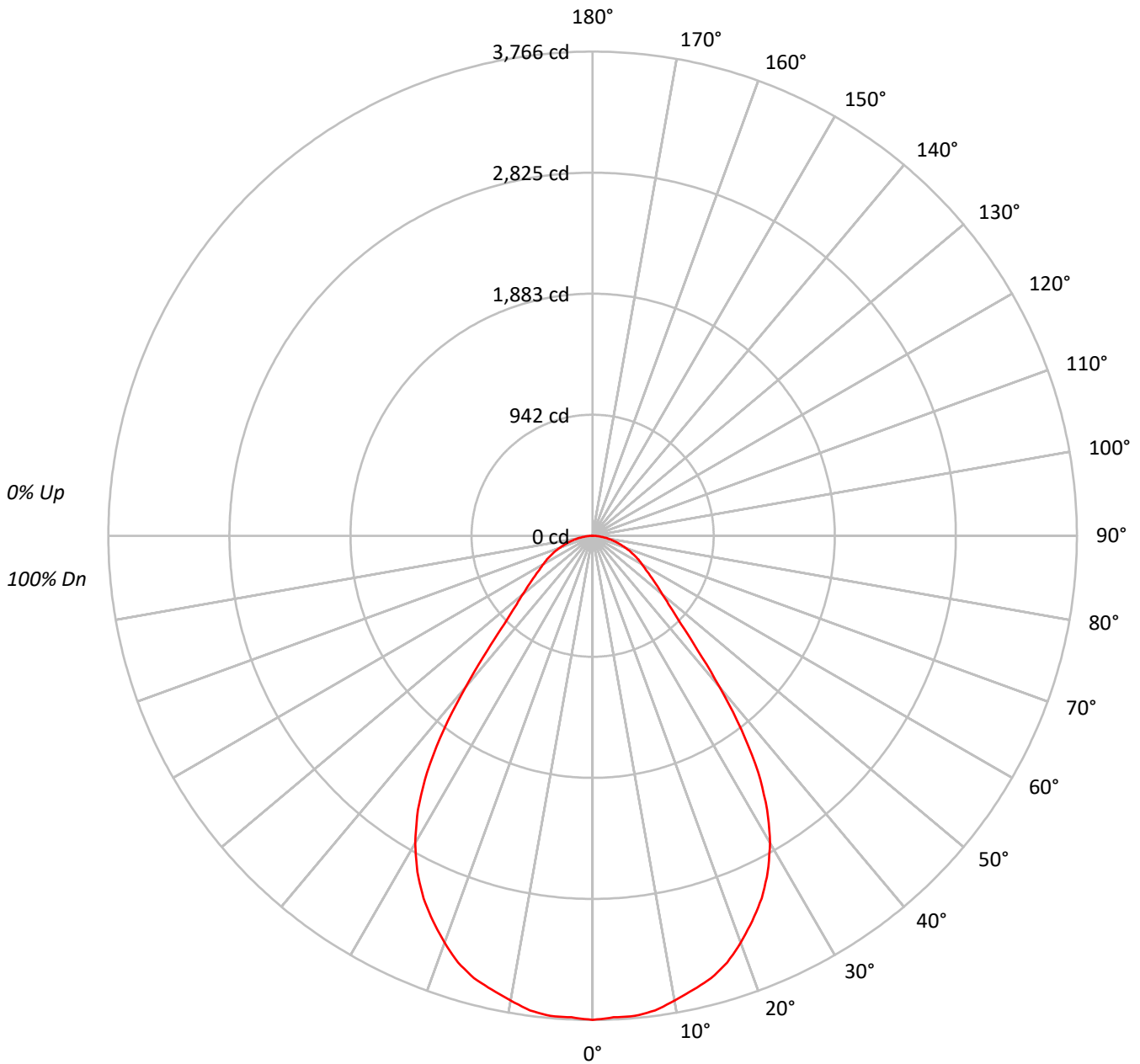
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

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

	0°
0°	206447
5°	206322
10°	204327
15°	202209
20°	196490
25°	188194
30°	174660
35°	150276
40°	109698
45°	75163
50°	60416
55°	52662
60°	48604
65°	46218
70°	43164
75°	40350
80°	36621
85°	31261



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.4	5.9
10°-20°	1000.6	16.5
20°-30°	1423.1	23.5
30°-40°	1370.1	22.6
40°-50°	788.3	13.0
50°-60°	499.5	8.3
60°-70°	353.6	5.8
70°-80°	201.6	3.3
80°-90°	57.5	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°	2779.2	45.9
0°-40°	4149.3	68.6
0°-60°	5437.1	89.9
0°-90°	6049.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6049.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3766	
5°	3749	355
15°	3563	1001
25°	3111	1423
35°	2246	1370
45°	970	788
55°	551	499
65°	356	354
75°	190	202
85°	50	57
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3765.9
2.5°	3749.3
5°	3749.3
7.5°	3724.5
10°	3670.6
12.5°	3616.8
15°	3562.9
17.5°	3480.0
20°	3368.1
22.5°	3243.9
25°	3111.3
27.5°	2949.7
30°	2759.2
32.5°	2527.2
35°	2245.5
37.5°	1901.6
40°	1532.9
42.5°	1209.7
45°	969.5
47.5°	816.1
50°	708.4
52.5°	621.5
55°	551.0
57.5°	488.8
60°	443.3
62.5°	401.9
65°	356.3
67.5°	314.8
70°	269.3
72.5°	227.9
75°	190.5
77.5°	153.3
80°	116.0
82.5°	82.8
85°	49.7
87.5°	20.7
90°	0.0



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— 0°-180°







(END OF REPORT)