

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: P583211

Luminaire Tested: **HC660D010-HM64560927-61NDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583211  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC660D010-HM64560927-61NDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4257.4 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

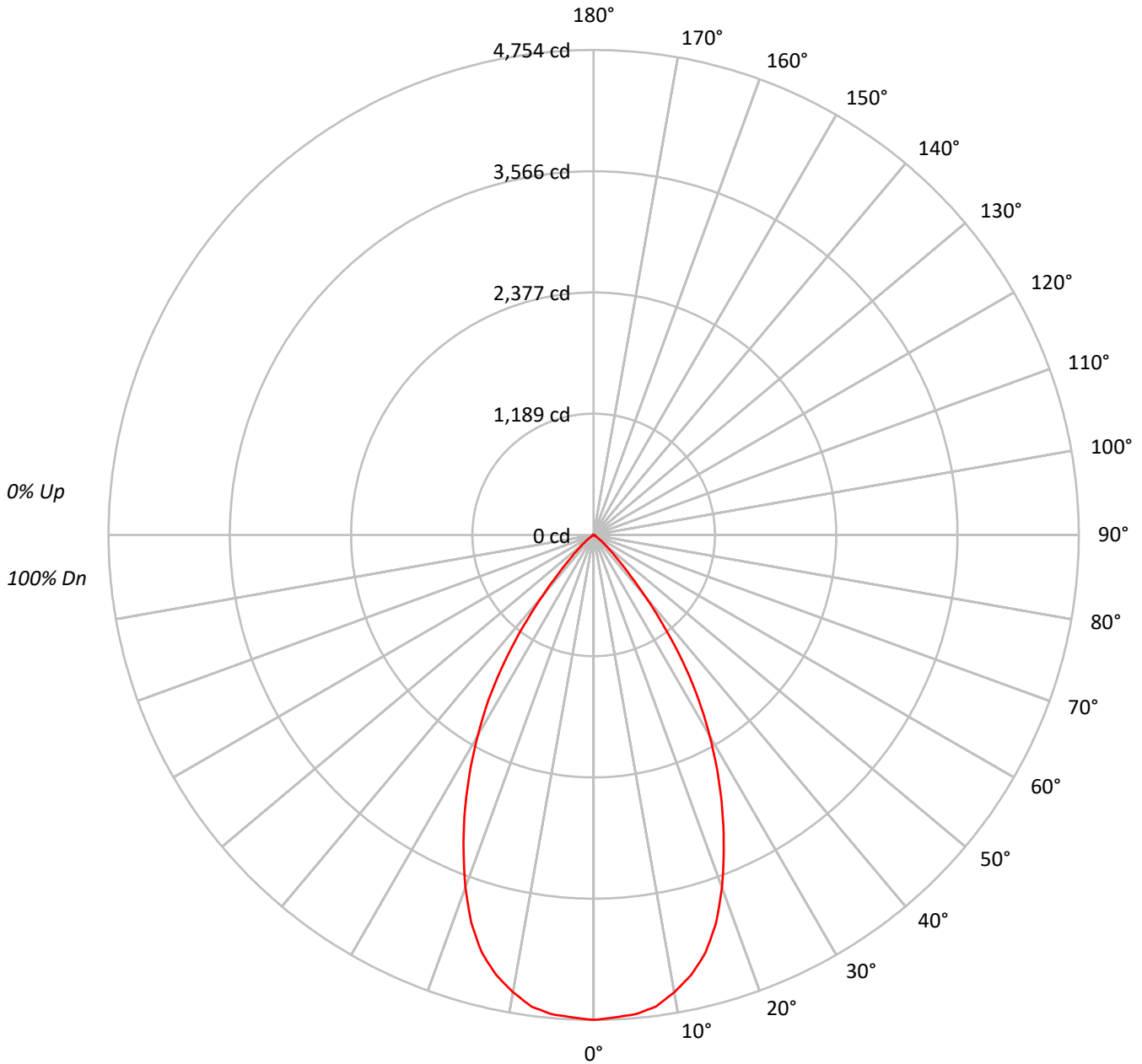
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	66	62	61
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51

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

	0°
0°	260621
5°	259519
10°	253380
15°	240518
20°	214382
25°	180591
30°	143877
35°	102653
40°	55196
45°	23646
50°	10754
55°	3919
60°	1930
65°	1531
70°	1410
75°	614
80°	916
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.2	10.5
10°-20°	1174.7	27.6
20°-30°	1360.6	32.0
30°-40°	940.8	22.1
40°-50°	271.7	6.4
50°-60°	46.8	1.1
60°-70°	11.9	0.3
70°-80°	4.6	0.1
80°-90°	1.2	0.0
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°	2980.5	70.0
0°-40°	3921.3	92.1
0°-60°	4239.7	99.6
0°-90°	4257.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4257.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4754	
5°	4716	445
15°	4238	1175
25°	2986	1361
35°	1534	941
45°	305	272
55°	41	47
65°	12	12
75°	3	5
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4754.1
2.5°	4733.5
5°	4716.0
7.5°	4663.2
10°	4551.8
12.5°	4416.8
15°	4237.9
17.5°	3985.7
20°	3674.8
22.5°	3331.7
25°	2985.6
27.5°	2630.8
30°	2272.9
32.5°	1915.1
35°	1533.9
37.5°	1137.9
40°	771.3
42.5°	486.9
45°	305.0
47.5°	196.5
50°	126.1
52.5°	76.3
55°	41.0
57.5°	23.5
60°	17.6
62.5°	14.6
65°	11.8
67.5°	8.8
70°	8.8
72.5°	5.9
75°	2.9
77.5°	2.9
80°	2.9
82.5°	2.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)