

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: P583140

Luminaire Tested: **HC660D010-HM64560827-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583140  
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: HC660D010-HM64560827-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4799.2 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

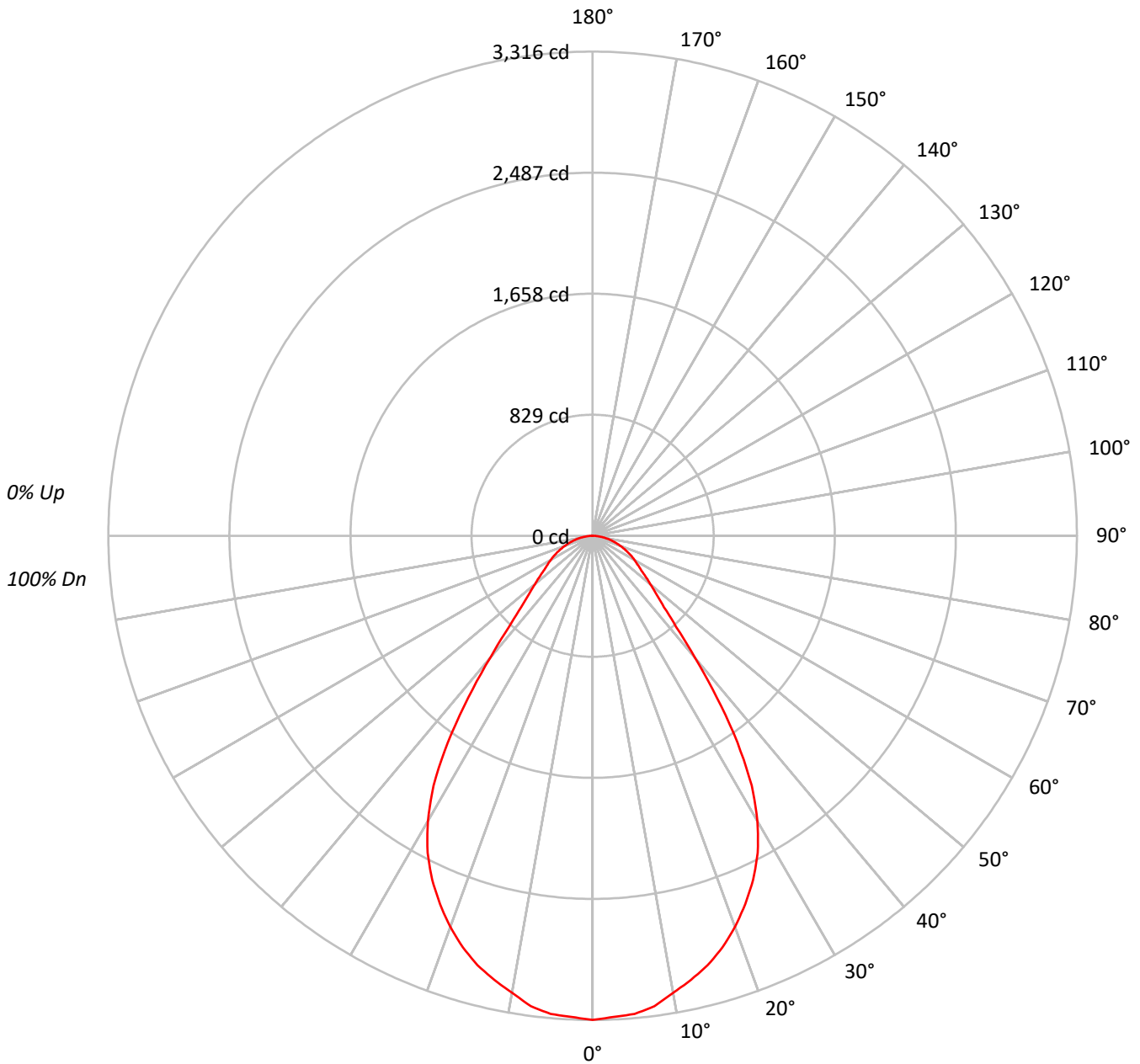
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	181773
5°	180915
10°	176923
15°	172771
20°	166276
25°	157249
30°	142908
35°	115677
40°	78003
45°	53602
50°	43922
55°	38431
60°	36357
65°	34323
70°	32233
75°	30628
80°	27844
85°	24405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.4	6.5
10°-20°	854.9	17.8
20°-30°	1187.7	24.7
30°-40°	1057.5	22.0
40°-50°	561.4	11.7
50°-60°	367.1	7.6
60°-70°	263.1	5.5
70°-80°	152.6	3.2
80°-90°	44.6	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°	2352.9	49.0
0°-40°	3410.5	71.1
0°-60°	4338.9	90.4
0°-90°	4799.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4799.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3316	
5°	3288	310
15°	3044	855
25°	2600	1188
35°	1728	1058
45°	691	561
55°	402	367
65°	265	263
75°	145	153
85°	39	45
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3315.8
2.5°	3298.2
5°	3287.6
7.5°	3248.8
10°	3178.3
12.5°	3114.7
15°	3044.2
17.5°	2956.0
20°	2850.2
22.5°	2730.2
25°	2599.7
27.5°	2448.1
30°	2257.6
32.5°	2028.4
35°	1728.5
37.5°	1396.9
40°	1090.0
42.5°	846.6
45°	691.4
47.5°	589.1
50°	515.0
52.5°	455.0
55°	402.1
57.5°	363.3
60°	331.6
62.5°	299.9
65°	264.6
67.5°	232.8
70°	201.1
72.5°	172.9
75°	144.6
77.5°	116.4
80°	88.2
82.5°	63.5
85°	38.8
87.5°	17.6
90°	0.0



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— 0°-180°







(END OF REPORT)