

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: P582293

Luminaire Tested: **HC635D010-HM63040830-61NDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582293  
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: HC635D010-HM63040830-61NDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3788.8 lumens  
Efficiency: N/A  
Efficacy: 112.4 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

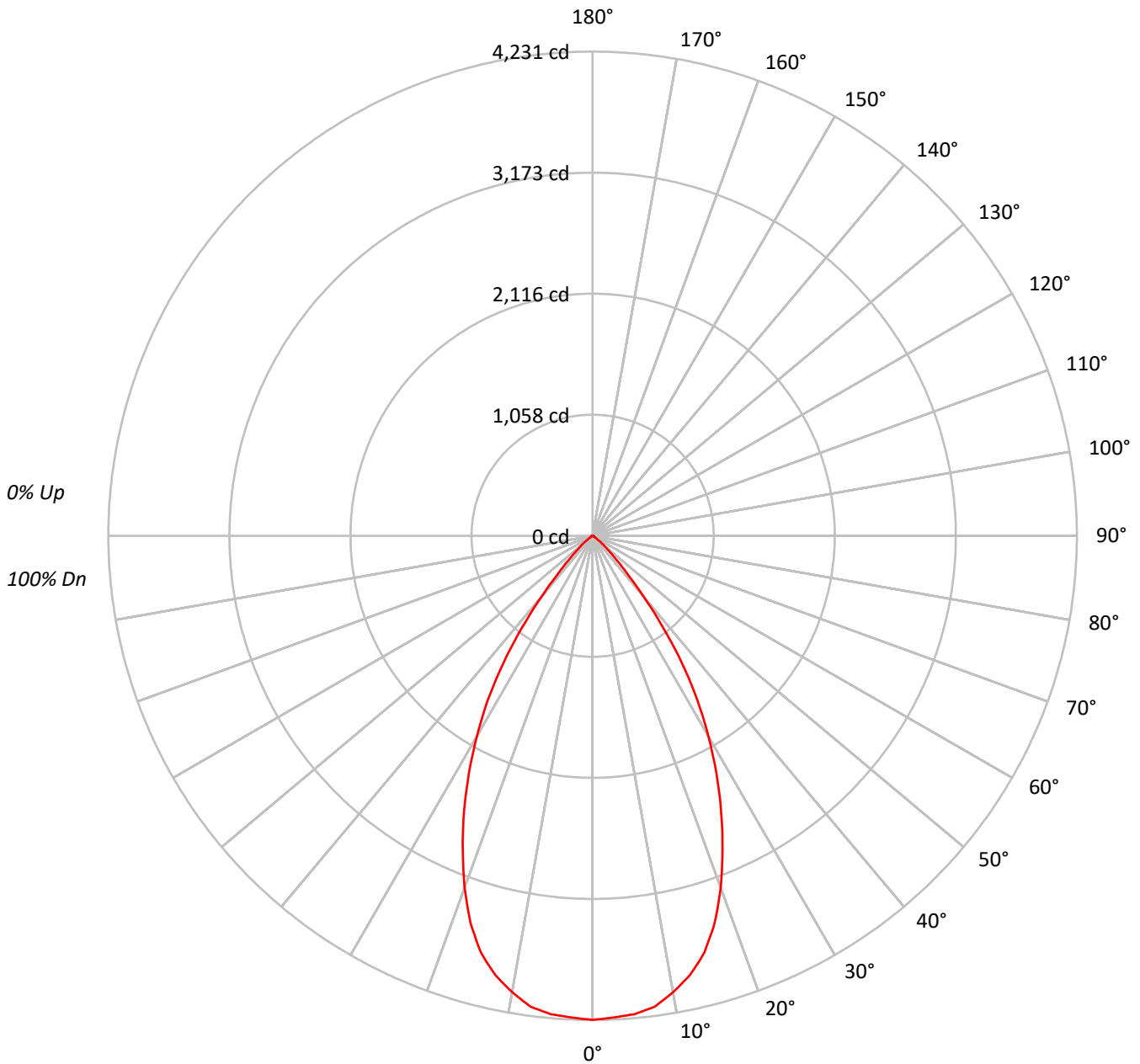
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	231933
5°	230954
10°	225491
15°	214048
20°	190790
25°	160715
30°	128045
35°	91350
40°	49121
45°	21041
50°	9578
55°	3489
60°	1710
65°	1349
70°	1250
75°	551
80°	821
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.2	10.5
10°-20°	1045.4	27.6
20°-30°	1210.8	32.0
30°-40°	837.2	22.1
40°-50°	241.8	6.4
50°-60°	41.6	1.1
60°-70°	10.6	0.3
70°-80°	4.1	0.1
80°-90°	1.1	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°	2652.4	70.0
0°-40°	3489.7	92.1
0°-60°	3773.0	99.6
0°-90°	3788.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3788.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4231	
5°	4197	396
15°	3772	1045
25°	2657	1211
35°	1365	837
45°	271	242
55°	36	42
65°	10	11
75°	3	4
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4230.8
2.5°	4212.6
5°	4196.9
7.5°	4150.0
10°	4050.8
12.5°	3930.7
15°	3771.5
17.5°	3547.0
20°	3270.4
22.5°	2965.0
25°	2657.0
27.5°	2341.2
30°	2022.8
32.5°	1704.4
35°	1365.0
37.5°	1012.7
40°	686.4
42.5°	433.3
45°	271.4
47.5°	174.8
50°	112.3
52.5°	67.8
55°	36.5
57.5°	20.9
60°	15.6
62.5°	13.1
65°	10.4
67.5°	7.8
70°	7.8
72.5°	5.3
75°	2.6
77.5°	2.6
80°	2.6
82.5°	2.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)