

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: P582306

Luminaire Tested: **HC6R35D010-HM63040830-62RMDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC6R35D010-HM63040830-62RMDC  
Description: HALO COMMERCIAL 6" ROUND, RETROFIT FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4112.4 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 0.96  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

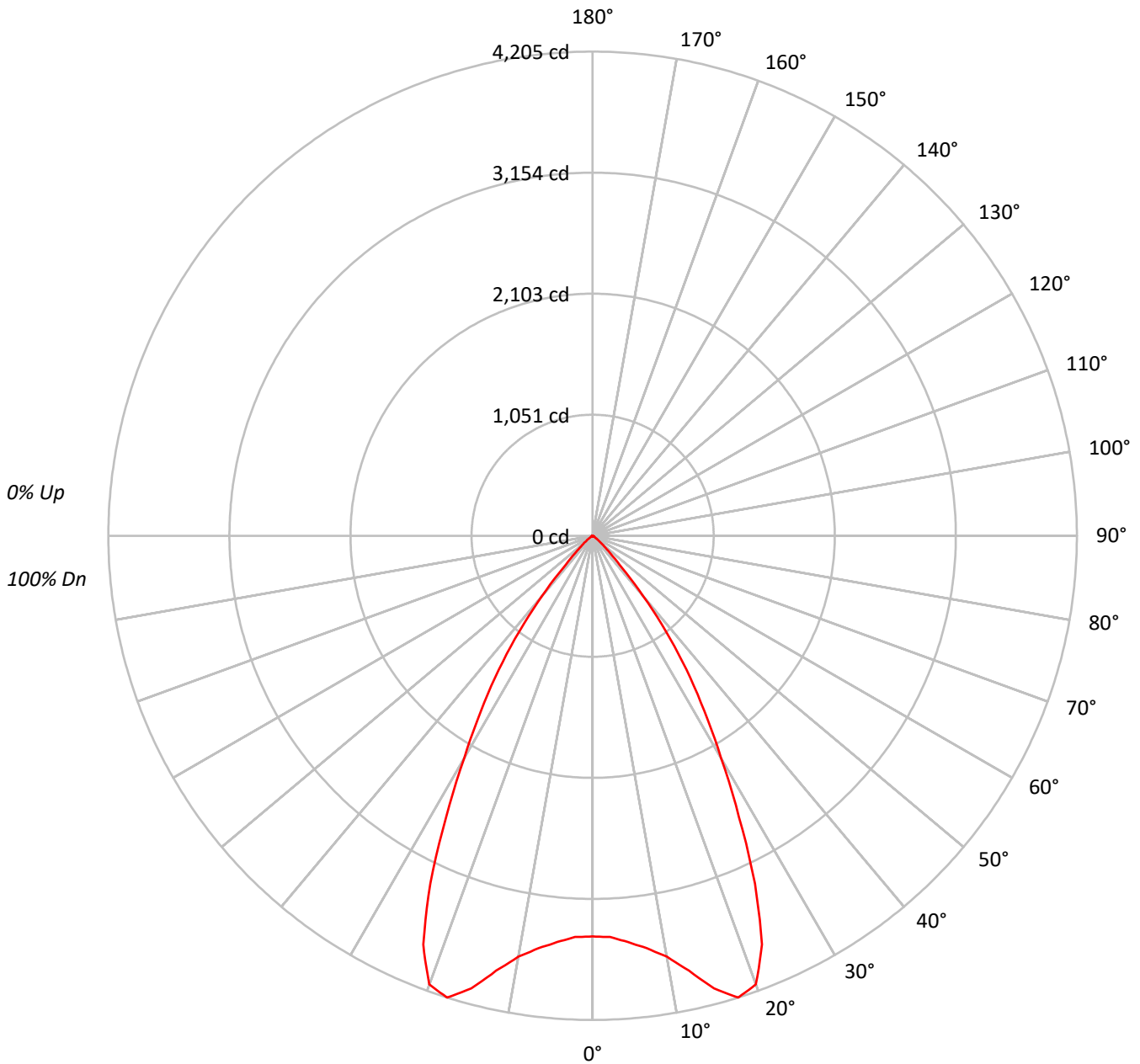
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	91	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	89	83	79	86	82	79	84	81	78	83	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	65	62	61			
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53			
10	72	62	56	52	71	61	56	52	60	55	52	60	55	52	59	55	51	50			

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

	0°
0°	190747
5°	194926
10°	206626
15°	230955
20°	241824
25°	201629
30°	141110
35°	95031
40°	48942
45°	17002
50°	7573
55°	2495
60°	1140
65°	1012
70°	850
75°	551
80°	821
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.3	8.3
10°-20°	1146.6	27.9
20°-30°	1490.2	36.2
30°-40°	880.2	21.4
40°-50°	210.0	5.1
50°-60°	30.9	0.8
60°-70°	7.7	0.2
70°-80°	3.1	0.1
80°-90°	0.4	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°	2980.1	72.5
0°-40°	3860.3	93.9
0°-60°	4101.3	99.7
0°-90°	4112.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4112.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3480	
5°	3542	343
15°	4069	1147
25°	3333	1490
35°	1420	880
45°	219	210
55°	26	31
65°	8	8
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3479.5
2.5°	3487.3
5°	3542.2
7.5°	3612.7
10°	3711.9
12.5°	3868.5
15°	4069.4
17.5°	4205.3
20°	4145.2
22.5°	3842.3
25°	3333.4
27.5°	2751.3
30°	2229.2
32.5°	1803.7
35°	1420.0
37.5°	1044.1
40°	683.9
42.5°	373.3
45°	219.3
47.5°	135.7
50°	88.8
52.5°	52.2
55°	26.1
57.5°	13.1
60°	10.4
62.5°	10.4
65°	7.8
67.5°	5.3
70°	5.3
72.5°	2.6
75°	2.6
77.5°	2.6
80°	2.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)