

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: P582320

Luminaire Tested: **HC635D010-HM63040835-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC635D010-HM63040835-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4259.5 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

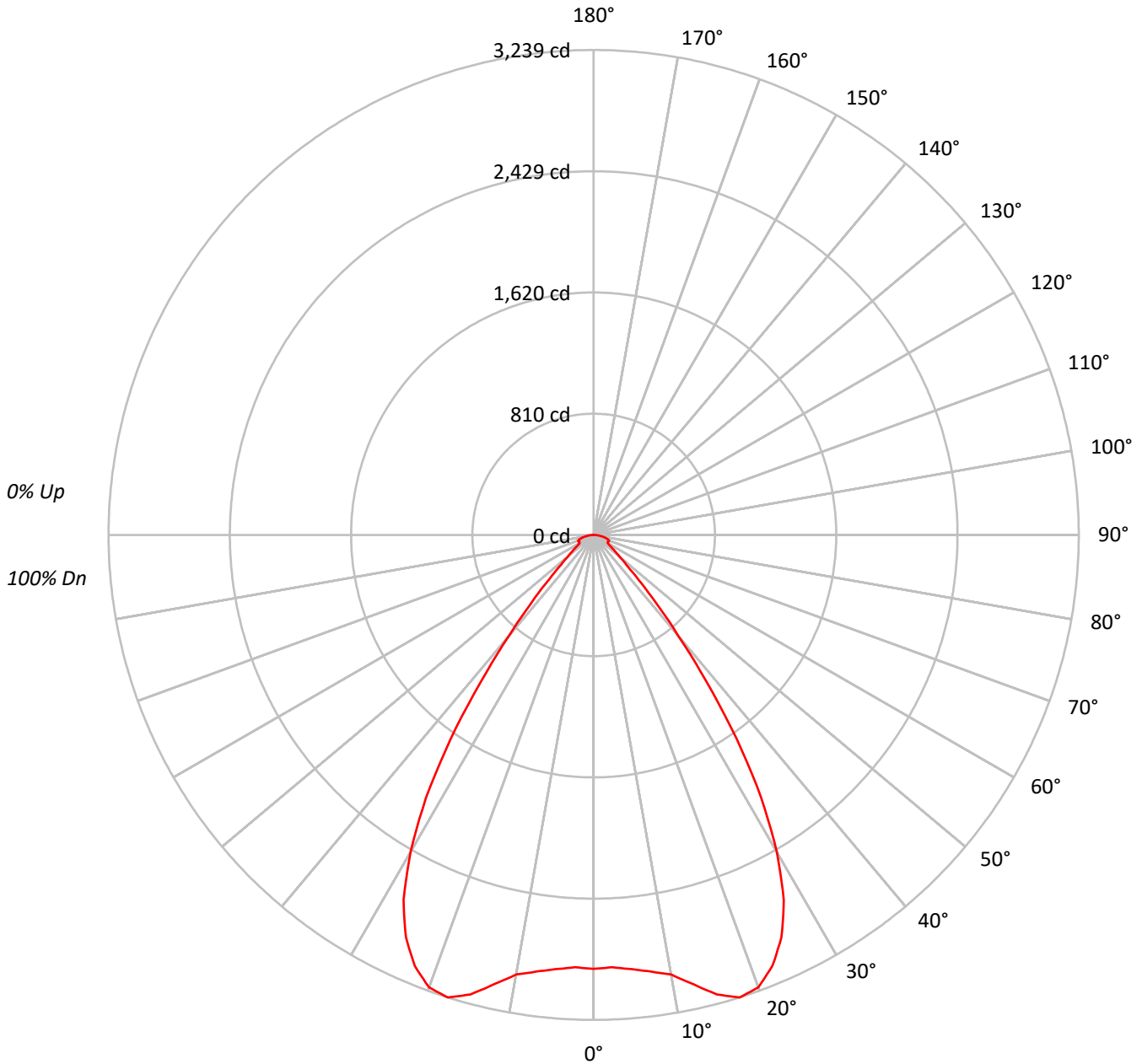
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

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

	0°
0°	158869
5°	160219
10°	165990
15°	180302
20°	187552
25°	179387
30°	154815
35°	111474
40°	62796
45°	32546
50°	19394
55°	13973
60°	11874
65°	13698
70°	17359
75°	18364
80°	17932
85°	17046



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.2	6.6
10°-20°	896.0	21.0
20°-30°	1339.3	31.4
30°-40°	1023.8	24.0
40°-50°	357.6	8.4
50°-60°	136.3	3.2
60°-70°	106.9	2.5
70°-80°	90.4	2.1
80°-90°	29.1	0.7
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°	2515.5	59.1
0°-40°	3539.3	83.1
0°-60°	4033.1	94.7
0°-90°	4259.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4259.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2898	
5°	2912	280
15°	3177	896
25°	2966	1339
35°	1666	1024
45°	420	358
55°	146	136
65°	106	107
75°	87	90
85°	27	29
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2898.0
2.5°	2889.8
5°	2911.5
7.5°	2941.3
10°	2981.9
12.5°	3074.0
15°	3176.9
17.5°	3239.2
20°	3214.9
22.5°	3117.4
25°	2965.7
27.5°	2749.0
30°	2445.7
32.5°	2082.7
35°	1665.7
37.5°	1235.0
40°	877.5
42.5°	614.8
45°	419.8
47.5°	295.3
50°	227.4
52.5°	178.8
55°	146.2
57.5°	119.2
60°	108.3
62.5°	105.6
65°	105.6
67.5°	111.1
70°	108.3
72.5°	100.2
75°	86.7
77.5°	73.2
80°	56.8
82.5°	40.6
85°	27.1
87.5°	10.9
90°	0.0



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— 0°-180°







(END OF REPORT)