

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: P582301

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC635D010-HM63040830-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3809.7 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

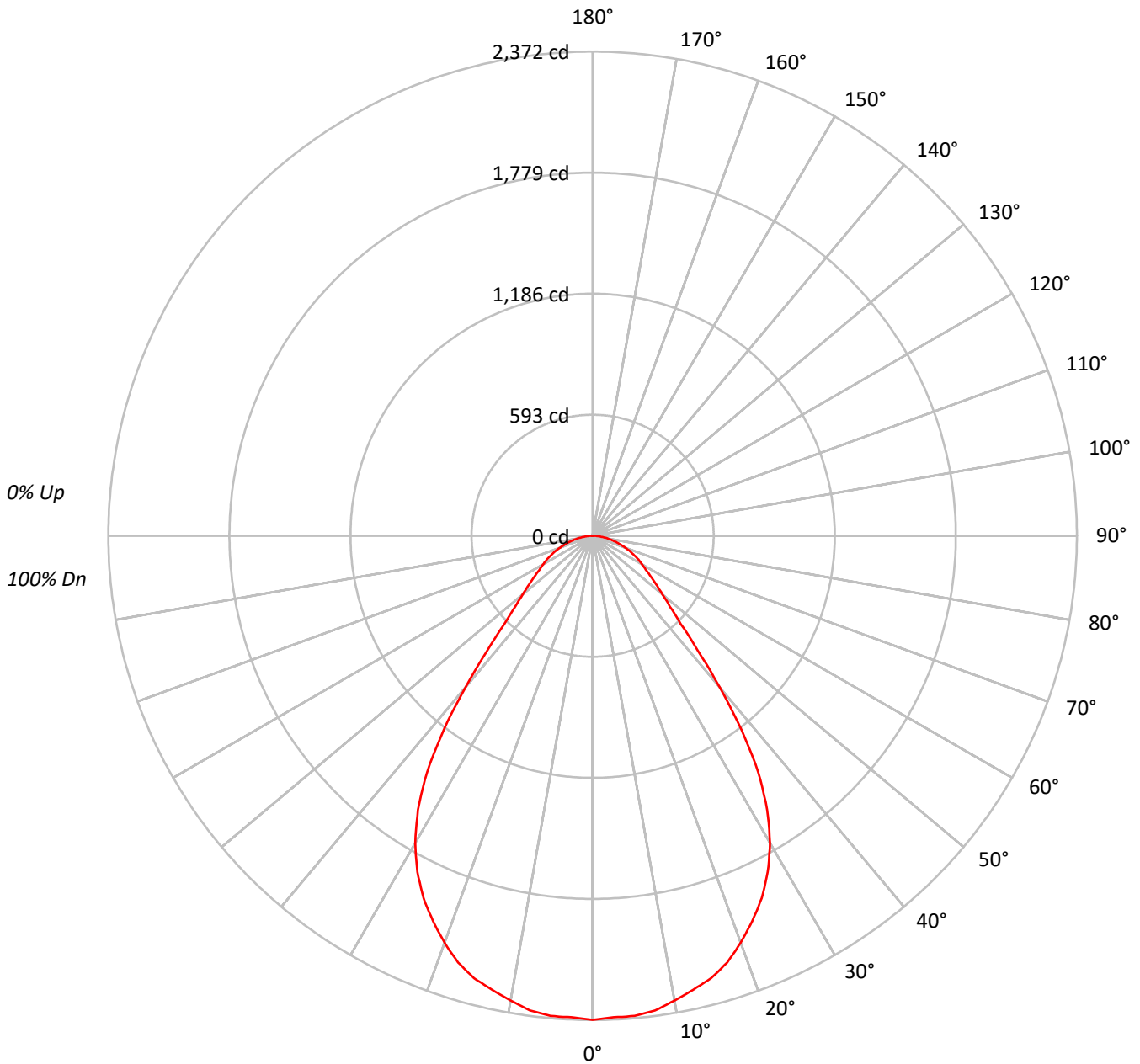
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

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

	0°
0°	130012
5°	129930
10°	128672
15°	127339
20°	123736
25°	118513
30°	109985
35°	94636
40°	69079
45°	47330
50°	38046
55°	33155
60°	30601
65°	29108
70°	27184
75°	25417
80°	23077
85°	19687



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.8	5.9
10°-20°	630.1	16.5
20°-30°	896.2	23.5
30°-40°	862.8	22.6
40°-50°	496.4	13.0
50°-60°	314.5	8.3
60°-70°	222.7	5.8
70°-80°	126.9	3.3
80°-90°	36.2	1.0
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°	1750.1	45.9
0°-40°	2612.9	68.6
0°-60°	3423.9	89.9
0°-90°	3809.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3809.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2372	
5°	2361	224
15°	2244	630
25°	1959	896
35°	1414	863
45°	610	496
55°	347	315
65°	224	223
75°	120	127
85°	31	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2371.6
2.5°	2361.1
5°	2361.1
7.5°	2345.4
10°	2311.5
12.5°	2277.6
15°	2243.7
17.5°	2191.5
20°	2121.0
22.5°	2042.8
25°	1959.3
27.5°	1857.6
30°	1737.5
32.5°	1591.4
35°	1414.1
37.5°	1197.5
40°	965.3
42.5°	761.8
45°	610.5
47.5°	513.9
50°	446.1
52.5°	391.3
55°	346.9
57.5°	307.9
60°	279.1
62.5°	253.1
65°	224.4
67.5°	198.3
70°	169.6
72.5°	143.5
75°	120.0
77.5°	96.5
80°	73.1
82.5°	52.2
85°	31.3
87.5°	13.1
90°	0.0



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— 0°-180°







(END OF REPORT)