

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: P582348

Luminaire Tested: **HC635D010-HM63040927-61NDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582348  
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: HC635D010-HM63040927-61NDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2795.2 lumens  
Efficiency: N/A  
Efficacy: 82.9 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

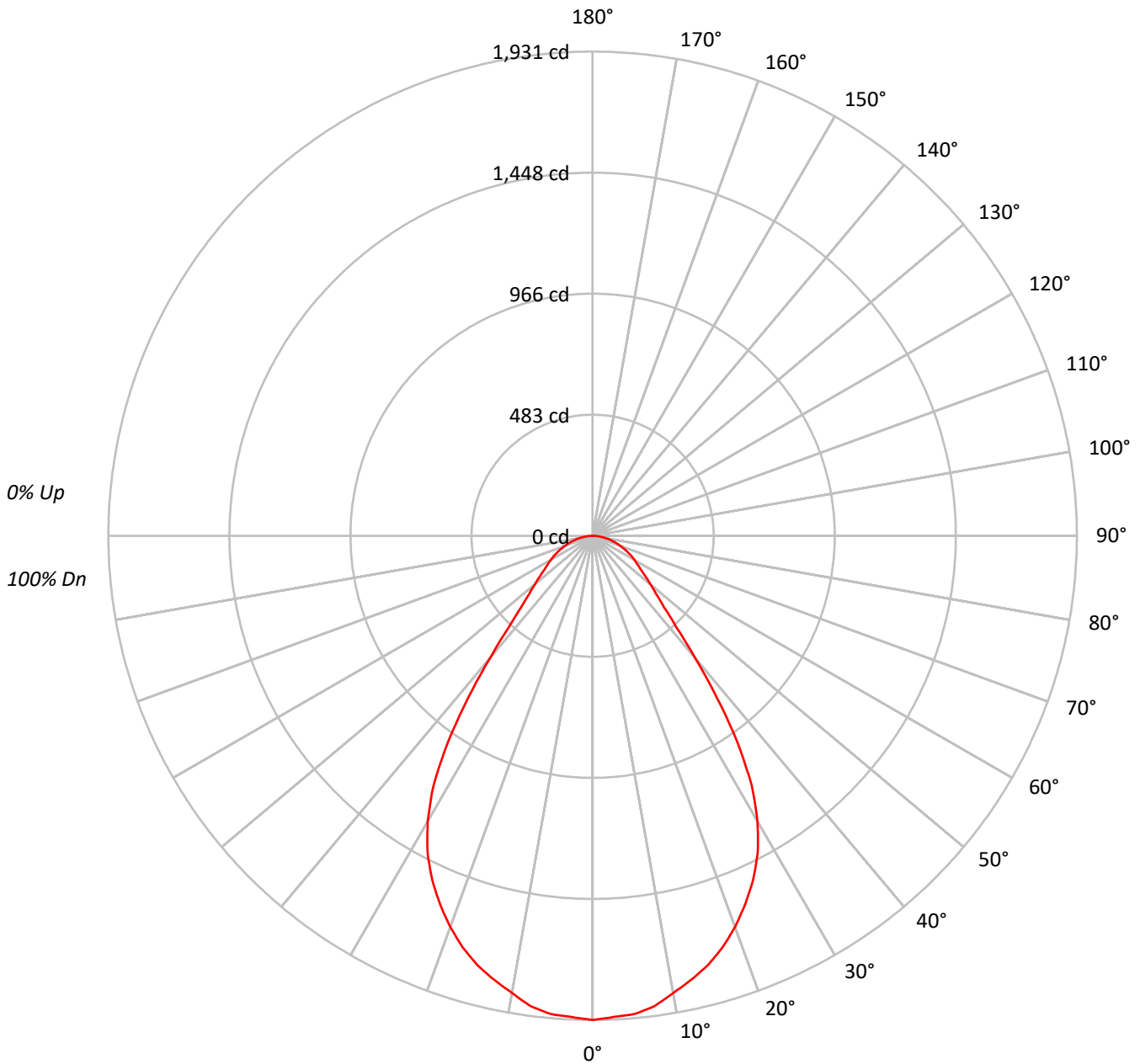
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

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

	0°
0°	105869
5°	105371
10°	103043
15°	100625
20°	96848
25°	91590
30°	83234
35°	67371
40°	45428
45°	31220
50°	25577
55°	22384
60°	21172
65°	19976
70°	18769
75°	17855
80°	16195
85°	14215



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.8	6.5
10°-20°	497.9	17.8
20°-30°	691.8	24.7
30°-40°	615.9	22.0
40°-50°	326.9	11.7
50°-60°	213.8	7.6
60°-70°	153.2	5.5
70°-80°	88.9	3.2
80°-90°	26.0	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°	1370.4	49.0
0°-40°	1986.3	71.1
0°-60°	2527.1	90.4
0°-90°	2795.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2795.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1931	
5°	1915	181
15°	1773	498
25°	1514	692
35°	1007	616
45°	403	327
55°	234	214
65°	154	153
75°	84	89
85°	23	26
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1931.2
2.5°	1920.9
5°	1914.8
7.5°	1892.2
10°	1851.1
12.5°	1814.1
15°	1773.0
17.5°	1721.7
20°	1660.1
22.5°	1590.2
25°	1514.2
27.5°	1425.8
30°	1314.9
32.5°	1181.4
35°	1006.7
37.5°	813.5
40°	634.8
42.5°	493.1
45°	402.7
47.5°	343.1
50°	299.9
52.5°	265.0
55°	234.2
57.5°	211.6
60°	193.1
62.5°	174.6
65°	154.0
67.5°	135.6
70°	117.1
72.5°	100.7
75°	84.3
77.5°	67.8
80°	51.3
82.5°	37.0
85°	22.6
87.5°	10.3
90°	0.0



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— 0°-180°







(END OF REPORT)