

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: P583022

Luminaire Tested: **HC655D010-HM64560830-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583022  
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: HC655D010-HM64560830-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5745.4 lumens  
Efficiency: N/A  
Efficacy: 110.5 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

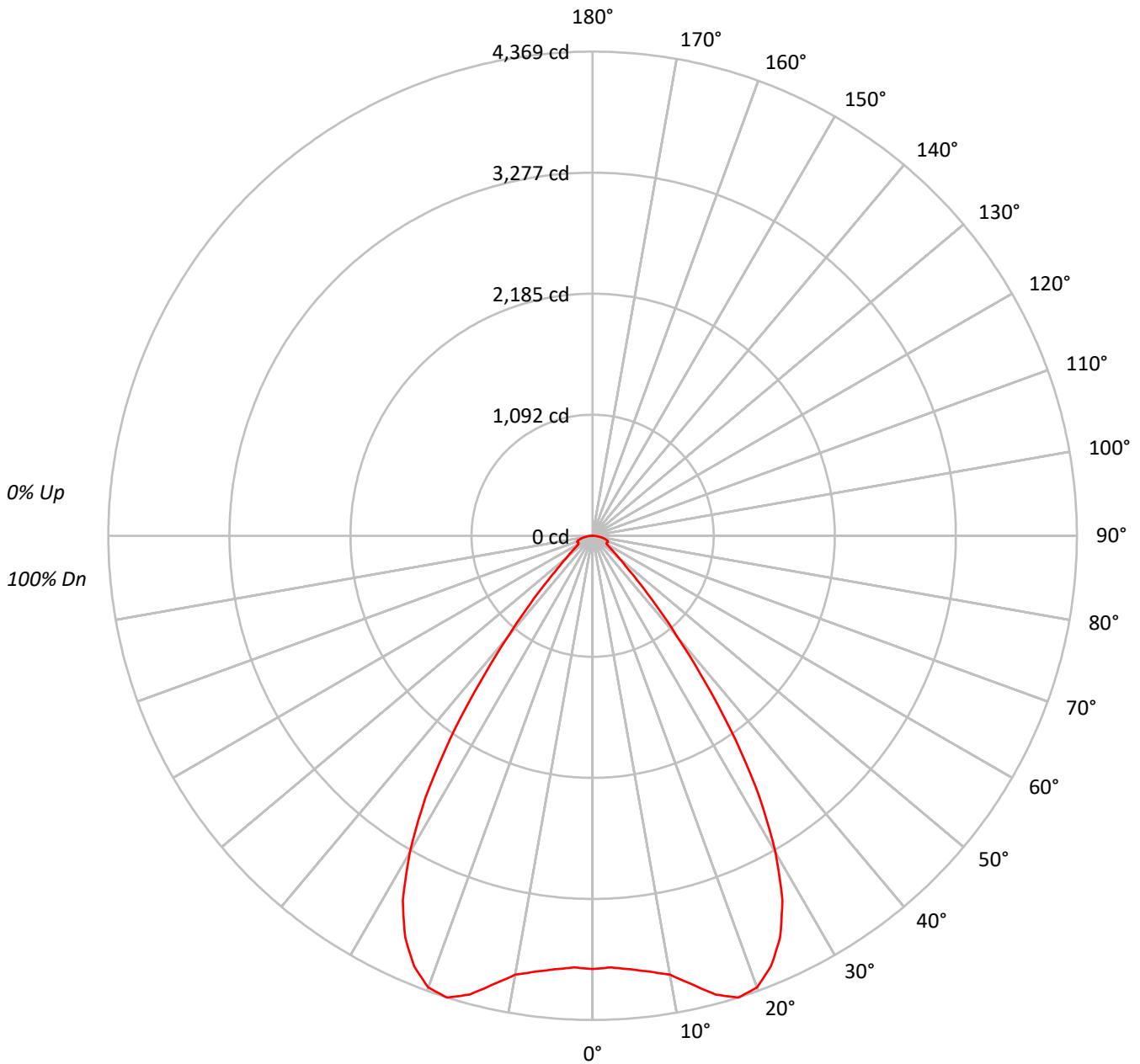
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	214287
5°	216107
10°	223894
15°	243202
20°	252973
25°	241962
30°	208817
35°	150349
40°	84702
45°	43896
50°	26174
55°	18857
60°	16018
65°	18471
70°	23417
75°	24760
80°	24214
85°	23021



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.9	6.6
10°-20°	1208.6	21.0
20°-30°	1806.5	31.4
30°-40°	1380.9	24.0
40°-50°	482.3	8.4
50°-60°	183.8	3.2
60°-70°	144.1	2.5
70°-80°	122.0	2.1
80°-90°	39.3	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°	3393.0	59.1
0°-40°	4773.9	83.1
0°-60°	5440.0	94.7
0°-90°	5745.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5745.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3909	
5°	3927	378
15°	4285	1209
25°	4000	1806
35°	2247	1381
45°	566	482
55°	197	184
65°	142	144
75°	117	122
85°	37	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3908.9
2.5°	3897.9
5°	3927.1
7.5°	3967.3
10°	4022.1
12.5°	4146.3
15°	4285.2
17.5°	4369.2
20°	4336.3
22.5°	4204.7
25°	4000.2
27.5°	3708.0
30°	3298.8
32.5°	2809.3
35°	2246.6
37.5°	1665.8
40°	1183.6
42.5°	829.3
45°	566.2
47.5°	398.2
50°	306.9
52.5°	241.1
55°	197.3
57.5°	160.8
60°	146.1
62.5°	142.4
65°	142.4
67.5°	149.8
70°	146.1
72.5°	135.2
75°	116.9
77.5°	98.7
80°	76.7
82.5°	54.8
85°	36.6
87.5°	14.7
90°	0.0



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— 0°-180°







(END OF REPORT)