

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: P583015

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560830-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5171.8 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

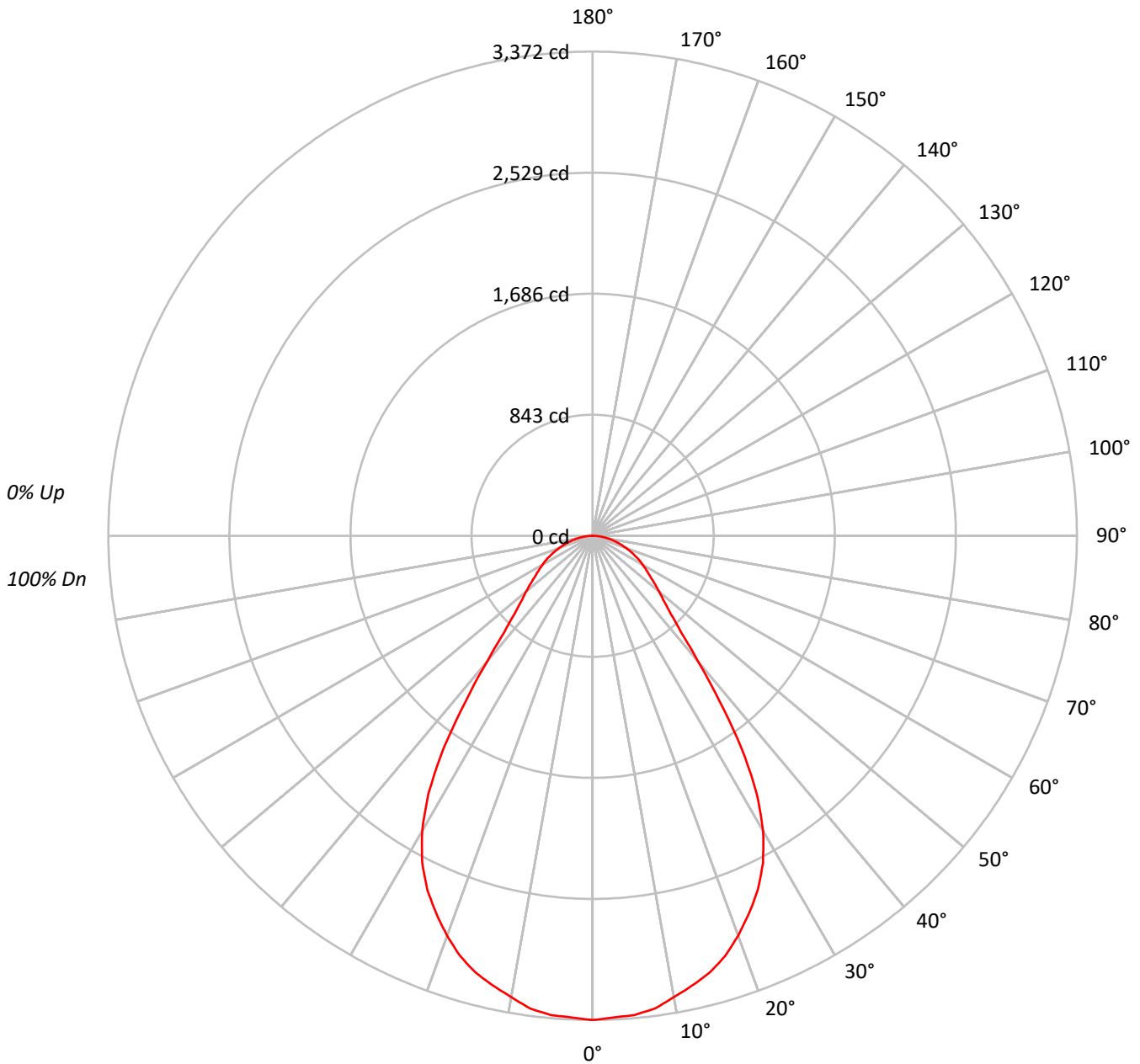
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	184854
5°	184355
10°	181610
15°	178724
20°	172845
25°	164628
30°	150314
35°	121030
40°	81567
45°	59479
50°	51418
55°	46440
60°	44064
65°	41704
70°	39237
75°	37130
80°	34569
85°	32141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.1	6.1
10°-20°	884.3	17.1
20°-30°	1242.5	24.0
30°-40°	1106.0	21.4
40°-50°	618.1	12.0
50°-60°	440.4	8.5
60°-70°	320.4	6.2
70°-80°	185.4	3.6
80°-90°	57.6	1.1
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°	2443.9	47.3
0°-40°	3549.9	68.6
0°-60°	4608.4	89.1
0°-90°	5171.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5171.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3372	
5°	3350	317
15°	3149	884
25°	2722	1242
35°	1808	1106
45°	767	618
55°	486	440
65°	322	320
75°	175	185
85°	51	58
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3372.0
2.5°	3357.5
5°	3350.1
7.5°	3320.9
10°	3262.5
12.5°	3207.7
15°	3149.1
17.5°	3068.8
20°	2962.8
22.5°	2845.9
25°	2721.7
27.5°	2568.3
30°	2374.6
32.5°	2126.2
35°	1808.5
37.5°	1450.4
40°	1139.8
42.5°	909.7
45°	767.2
47.5°	672.2
50°	602.9
52.5°	540.7
55°	485.9
57.5°	442.1
60°	401.9
62.5°	365.3
65°	321.5
67.5°	285.0
70°	244.8
72.5°	208.2
75°	175.3
77.5°	142.4
80°	109.5
82.5°	80.3
85°	51.1
87.5°	25.6
90°	0.0



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— 0°-180°







(END OF REPORT)