

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: P582885

Luminaire Tested: **HC605D010-HM60525835-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525835-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 669.8 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

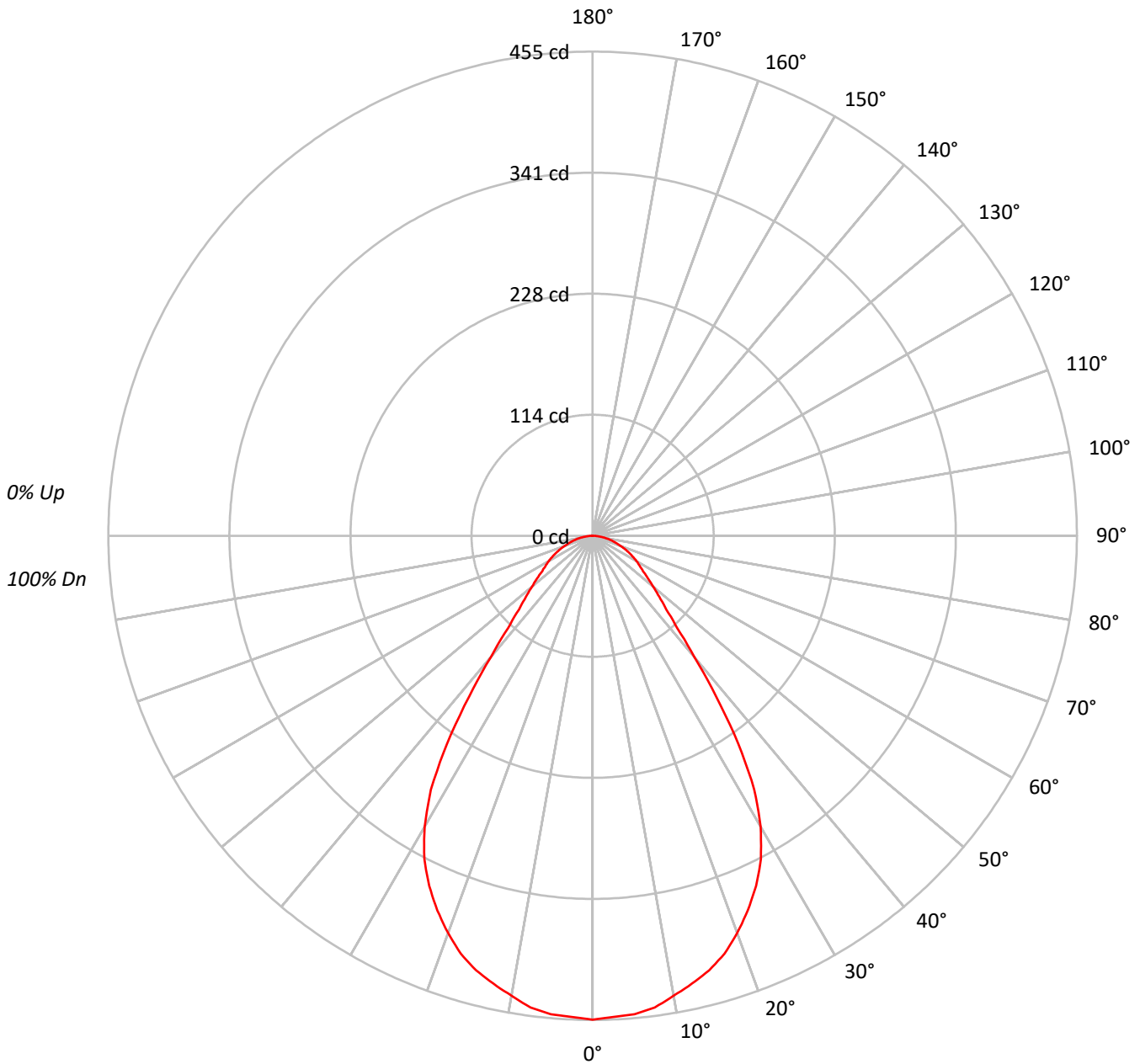
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24932
5°	24840
10°	24432
15°	23996
20°	23172
25°	21969
30°	19984
35°	15961
40°	10649
45°	7598
50°	6328
55°	5515
60°	5219
65°	4916
70°	4504
75°	4215
80°	3820
85°	3334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	6.4
10°-20°	118.7	17.7
20°-30°	165.9	24.8
30°-40°	146.1	21.8
40°-50°	79.0	11.8
50°-60°	52.8	7.9
60°-70°	37.5	5.6
70°-80°	21.0	3.1
80°-90°	6.1	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°	327.4	48.9
0°-40°	473.5	70.7
0°-60°	605.2	90.4
0°-90°	669.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	455	
5°	451	43
15°	423	119
25°	363	166
35°	238	146
45°	98	79
55°	58	53
65°	38	37
75°	20	21
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	454.8
2.5°	452.5
5°	451.4
7.5°	447.1
10°	438.9
12.5°	431.1
15°	422.8
17.5°	411.8
20°	397.2
22.5°	381.1
25°	363.2
27.5°	342.4
30°	315.7
32.5°	282.7
35°	238.5
37.5°	190.6
40°	148.8
42.5°	117.4
45°	98.0
47.5°	84.9
50°	74.2
52.5°	65.4
55°	57.7
57.5°	52.3
60°	47.6
62.5°	42.7
65°	37.9
67.5°	33.0
70°	28.1
72.5°	23.7
75°	19.9
77.5°	16.0
80°	12.1
82.5°	8.7
85°	5.3
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)