

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: P592990

Luminaire Tested: **HC605D010-HM60525850-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P592990
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: HC605D010-HM60525850-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 681.4 lumens
Efficiency: N/A
Efficacy: 113.6 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

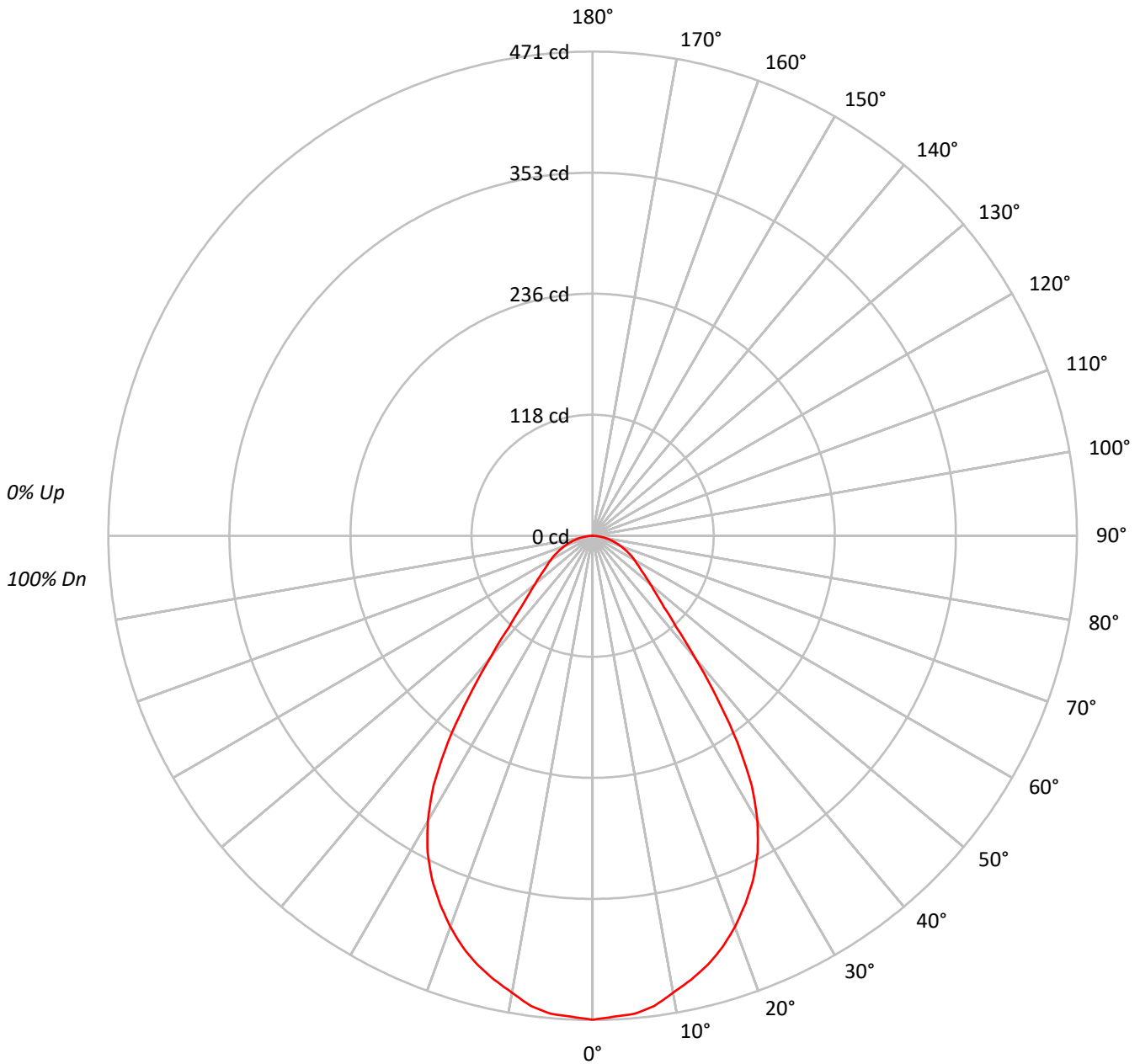
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P592990

CATALOG NUMBER: HC605D010-HM60525850-61NDW

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	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25809
5°	25688
10°	25122
15°	24529
20°	23610
25°	22332
30°	20294
35°	16423
40°	11078
45°	7613
50°	6234
55°	5457
60°	5164
65°	4864
70°	4584
75°	4363
80°	3946
85°	3459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	6.5
10°-20°	121.4	17.8
20°-30°	168.7	24.7
30°-40°	150.1	22.0
40°-50°	79.7	11.7
50°-60°	52.1	7.6
60°-70°	37.4	5.5
70°-80°	21.7	3.2
80°-90°	6.3	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°	334.1	49.0
0°-40°	484.3	71.1
0°-60°	616.1	90.4
0°-90°	681.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	681.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	471	
5°	467	44
15°	432	121
25°	369	169
35°	245	150
45°	98	80
55°	57	52
65°	38	37
75°	21	22
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	470.8
2.5°	468.3
5°	466.8
7.5°	461.3
10°	451.3
12.5°	442.3
15°	432.2
17.5°	419.7
20°	404.7
22.5°	387.7
25°	369.2
27.5°	347.6
30°	320.6
32.5°	288.0
35°	245.4
37.5°	198.3
40°	154.8
42.5°	120.2
45°	98.2
47.5°	83.6
50°	73.1
52.5°	64.6
55°	57.1
57.5°	51.6
60°	47.1
62.5°	42.6
65°	37.5
67.5°	33.1
70°	28.6
72.5°	24.5
75°	20.6
77.5°	16.5
80°	12.5
82.5°	9.0
85°	5.5
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)