

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: P582852

Luminaire Tested: **HC605D010-HM60525827-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582852
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-HM60525827-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 604.1 lumens
Efficiency: N/A
Efficacy: 100.7 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

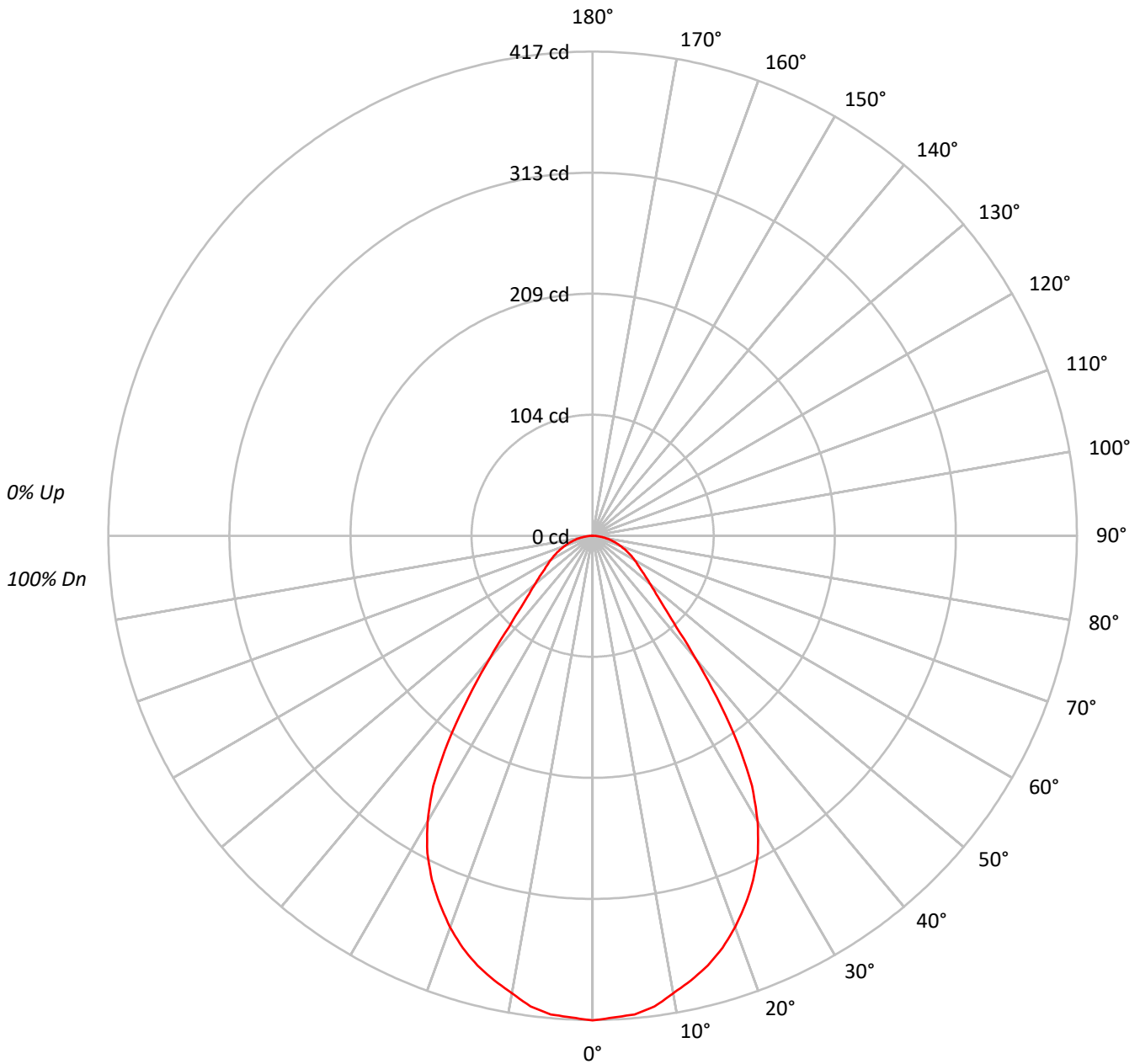
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HC605D010-HM60525827-61NDW

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°	22882
5°	22771
10°	22266
15°	21748
20°	20932
25°	19791
30°	17990
35°	14556
40°	9818
45°	6745
50°	5535
55°	4836
60°	4572
65°	4320
70°	4055
75°	3855
80°	3504
85°	3082



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	6.5
10°-20°	107.6	17.8
20°-30°	149.5	24.7
30°-40°	133.1	22.0
40°-50°	70.7	11.7
50°-60°	46.2	7.7
60°-70°	33.1	5.5
70°-80°	19.2	3.2
80°-90°	5.6	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°	296.2	49.0
0°-40°	429.3	71.1
0°-60°	546.2	90.4
0°-90°	604.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	604.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	417	
5°	414	39
15°	383	108
25°	327	149
35°	218	133
45°	87	71
55°	51	46
65°	33	33
75°	18	19
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	417.4
2.5°	415.2
5°	413.8
7.5°	408.9
10°	400.0
12.5°	392.1
15°	383.2
17.5°	372.1
20°	358.8
22.5°	343.6
25°	327.2
27.5°	308.2
30°	284.2
32.5°	255.3
35°	217.5
37.5°	175.8
40°	137.2
42.5°	106.6
45°	87.0
47.5°	74.1
50°	64.9
52.5°	57.3
55°	50.6
57.5°	45.8
60°	41.7
62.5°	37.7
65°	33.3
67.5°	29.3
70°	25.3
72.5°	21.8
75°	18.2
77.5°	14.7
80°	11.1
82.5°	8.0
85°	4.9
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)