

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: P582859

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC605D010-HM60525827-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 648.1 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

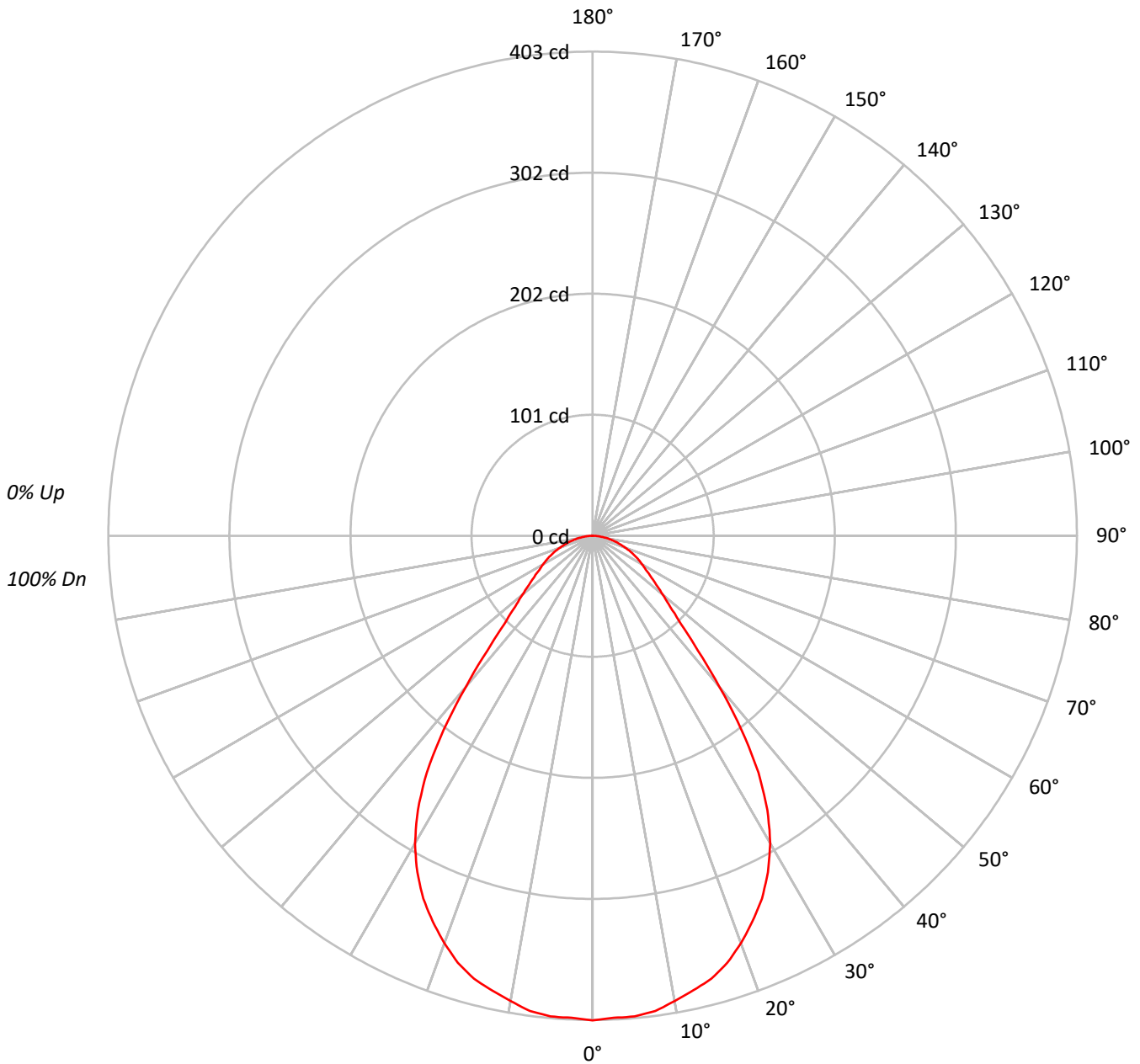
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22114
5°	22100
10°	21888
15°	21663
20°	21048
25°	20160
30°	18712
35°	16102
40°	11751
45°	8047
50°	6473
55°	5639
60°	5208
65°	4955
70°	4616
75°	4342
80°	3915
85°	3334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	5.9
10°-20°	107.2	16.5
20°-30°	152.4	23.5
30°-40°	146.8	22.6
40°-50°	84.5	13.0
50°-60°	53.5	8.3
60°-70°	37.9	5.8
70°-80°	21.6	3.3
80°-90°	6.2	1.0
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°	297.7	45.9
0°-40°	444.5	68.6
0°-60°	582.4	89.9
0°-90°	648.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	648.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	403	
5°	402	38
15°	382	107
25°	333	152
35°	241	147
45°	104	84
55°	59	53
65°	38	38
75°	20	22
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	403.4
2.5°	401.6
5°	401.6
7.5°	399.0
10°	393.2
12.5°	387.5
15°	381.7
17.5°	372.8
20°	360.8
22.5°	347.5
25°	333.3
27.5°	315.9
30°	295.6
32.5°	270.7
35°	240.6
37.5°	203.7
40°	164.2
42.5°	129.6
45°	103.8
47.5°	87.5
50°	75.9
52.5°	66.6
55°	59.0
57.5°	52.3
60°	47.5
62.5°	43.1
65°	38.2
67.5°	33.7
70°	28.8
72.5°	24.4
75°	20.5
77.5°	16.4
80°	12.4
82.5°	8.9
85°	5.3
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)