

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: P581600

Luminaire Tested: **HC610D010-HM60525835-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581600
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: HC610D010-HM60525835-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

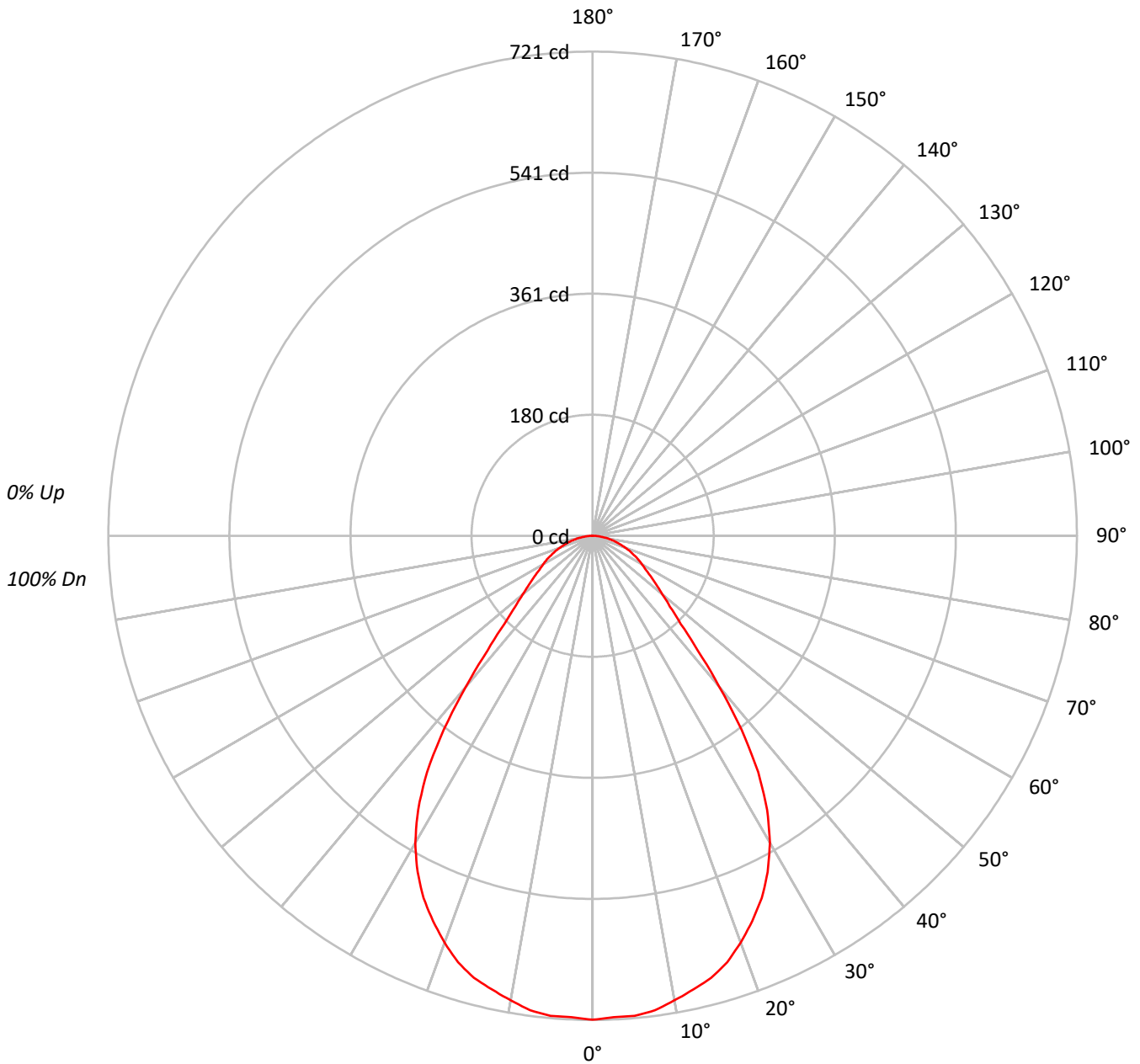
Lumens per Lamp: N/A
Luminaire Lumens: 1157.6 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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			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	62	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°	39503
5°	39484
10°	39100
15°	38695
20°	37605
25°	36014
30°	33423
35°	28757
40°	20989
45°	14381
50°	11565
55°	10074
60°	9298
65°	8834
70°	8255
75°	7731
80°	7008
85°	5975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	5.9
10°-20°	191.5	16.5
20°-30°	272.3	23.5
30°-40°	262.2	22.6
40°-50°	150.9	13.0
50°-60°	95.6	8.3
60°-70°	67.6	5.8
70°-80°	38.6	3.3
80°-90°	11.0	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°	531.8	45.9
0°-40°	794.0	68.6
0°-60°	1040.5	89.9
0°-90°	1157.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	721	
5°	718	68
15°	682	191
25°	595	272
35°	430	262
45°	186	151
55°	105	96
65°	68	68
75°	36	39
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	720.6
2.5°	717.5
5°	717.5
7.5°	712.7
10°	702.4
12.5°	692.1
15°	681.8
17.5°	666.0
20°	644.6
22.5°	620.8
25°	595.4
27.5°	564.5
30°	528.0
32.5°	483.6
35°	429.7
37.5°	363.9
40°	293.3
42.5°	231.5
45°	185.5
47.5°	156.2
50°	135.6
52.5°	119.0
55°	105.4
57.5°	93.5
60°	84.8
62.5°	76.9
65°	68.1
67.5°	60.2
70°	51.5
72.5°	43.6
75°	36.5
77.5°	29.3
80°	22.2
82.5°	15.8
85°	9.5
87.5°	4.0
90°	0.0



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— 0°-180°







(END OF REPORT)