

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: P581563

Luminaire Tested: **HC610D010-HM60525827-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581563
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-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: 1059.4 lumens
Efficiency: N/A
Efficacy: 107.0 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

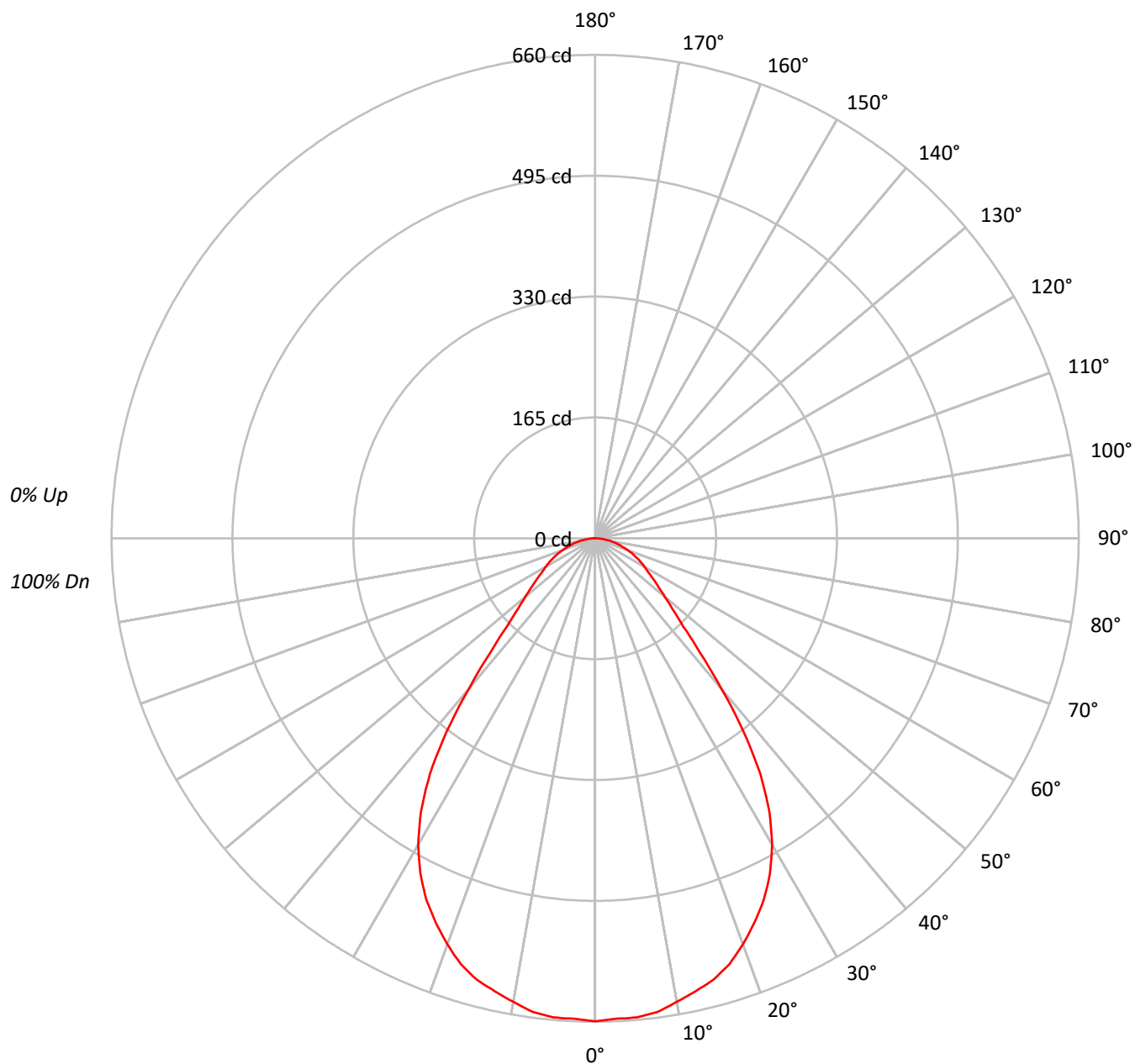
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89		
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78		
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56		
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36154
5°	36132
10°	35776
15°	35415
20°	34414
25°	32954
30°	30581
35°	26321
40°	19207
45°	13164
50°	10584
55°	9214
60°	8519
65°	8094
70°	7565
75°	7074
80°	6409
85°	5472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	5.9
10°-20°	175.2	16.5
20°-30°	249.2	23.5
30°-40°	239.9	22.6
40°-50°	138.1	13.0
50°-60°	87.5	8.3
60°-70°	61.9	5.8
70°-80°	35.3	3.3
80°-90°	10.1	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°	486.7	45.9
0°-40°	726.6	68.6
0°-60°	952.1	89.9
0°-90°	1059.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	660	
5°	657	62
15°	624	175
25°	545	249
35°	393	240
45°	170	138
55°	96	87
65°	62	62
75°	33	35
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	659.5
2.5°	656.6
5°	656.6
7.5°	652.3
10°	642.7
12.5°	633.4
15°	624.0
17.5°	609.5
20°	589.9
22.5°	568.0
25°	544.8
27.5°	516.5
30°	483.1
32.5°	442.6
35°	393.3
37.5°	333.0
40°	268.4
42.5°	211.8
45°	169.8
47.5°	143.0
50°	124.1
52.5°	108.8
55°	96.4
57.5°	85.6
60°	77.7
62.5°	70.4
65°	62.4
67.5°	55.1
70°	47.2
72.5°	40.0
75°	33.4
77.5°	26.8
80°	20.3
82.5°	14.5
85°	8.7
87.5°	3.6
90°	0.0



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— 0°-180°







(END OF REPORT)