

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: P581557

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525827-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1027.5 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

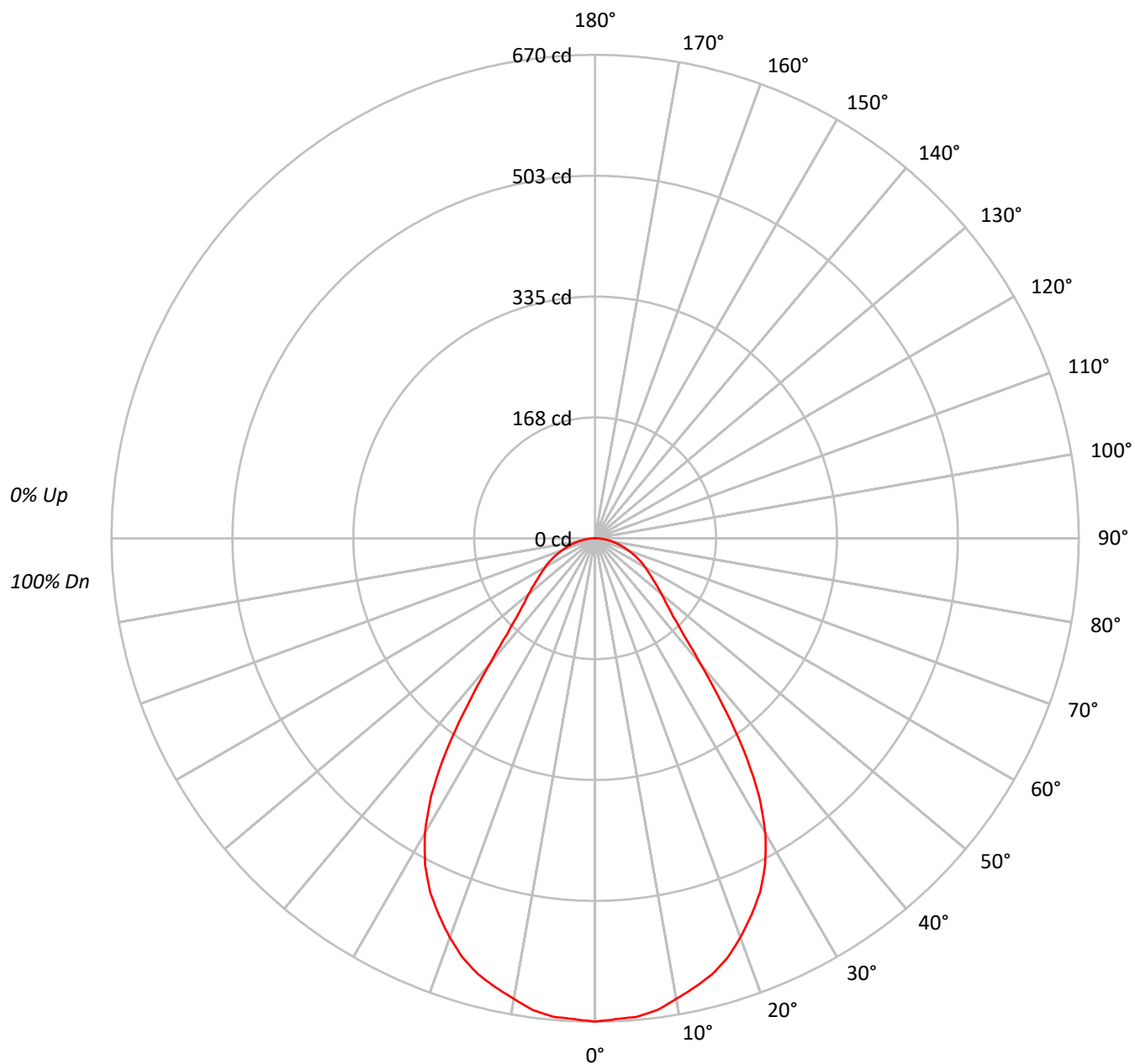
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	92	90	88		
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78		
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62		
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56		
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51		
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36724
5°	36628
10°	36083
15°	35511
20°	34338
25°	32712
30°	29865
35°	24045
40°	16202
45°	11815
50°	10217
55°	9233
60°	8749
65°	8276
70°	7806
75°	7392
80°	6851
85°	6416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	6.1
10°-20°	175.7	17.1
20°-30°	246.9	24.0
30°-40°	219.7	21.4
40°-50°	122.8	12.0
50°-60°	87.5	8.5
60°-70°	63.6	6.2
70°-80°	36.8	3.6
80°-90°	11.5	1.1
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°	485.5	47.3
0°-40°	705.3	68.6
0°-60°	915.6	89.1
0°-90°	1027.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1027.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	670	
5°	666	63
15°	626	176
25°	541	247
35°	359	220
45°	152	123
55°	97	87
65°	64	64
75°	35	37
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	669.9
2.5°	667.0
5°	665.6
7.5°	659.7
10°	648.2
12.5°	637.3
15°	625.7
17.5°	609.7
20°	588.6
22.5°	565.4
25°	540.8
27.5°	510.2
30°	471.8
32.5°	422.5
35°	359.3
37.5°	288.1
40°	226.4
42.5°	180.8
45°	152.4
47.5°	133.6
50°	119.8
52.5°	107.4
55°	96.6
57.5°	87.8
60°	79.8
62.5°	72.6
65°	63.8
67.5°	56.6
70°	48.7
72.5°	41.3
75°	34.9
77.5°	28.3
80°	21.7
82.5°	16.0
85°	10.2
87.5°	5.1
90°	0.0



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— 0°-180°







(END OF REPORT)