

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: P581589

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525835-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1123.6 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

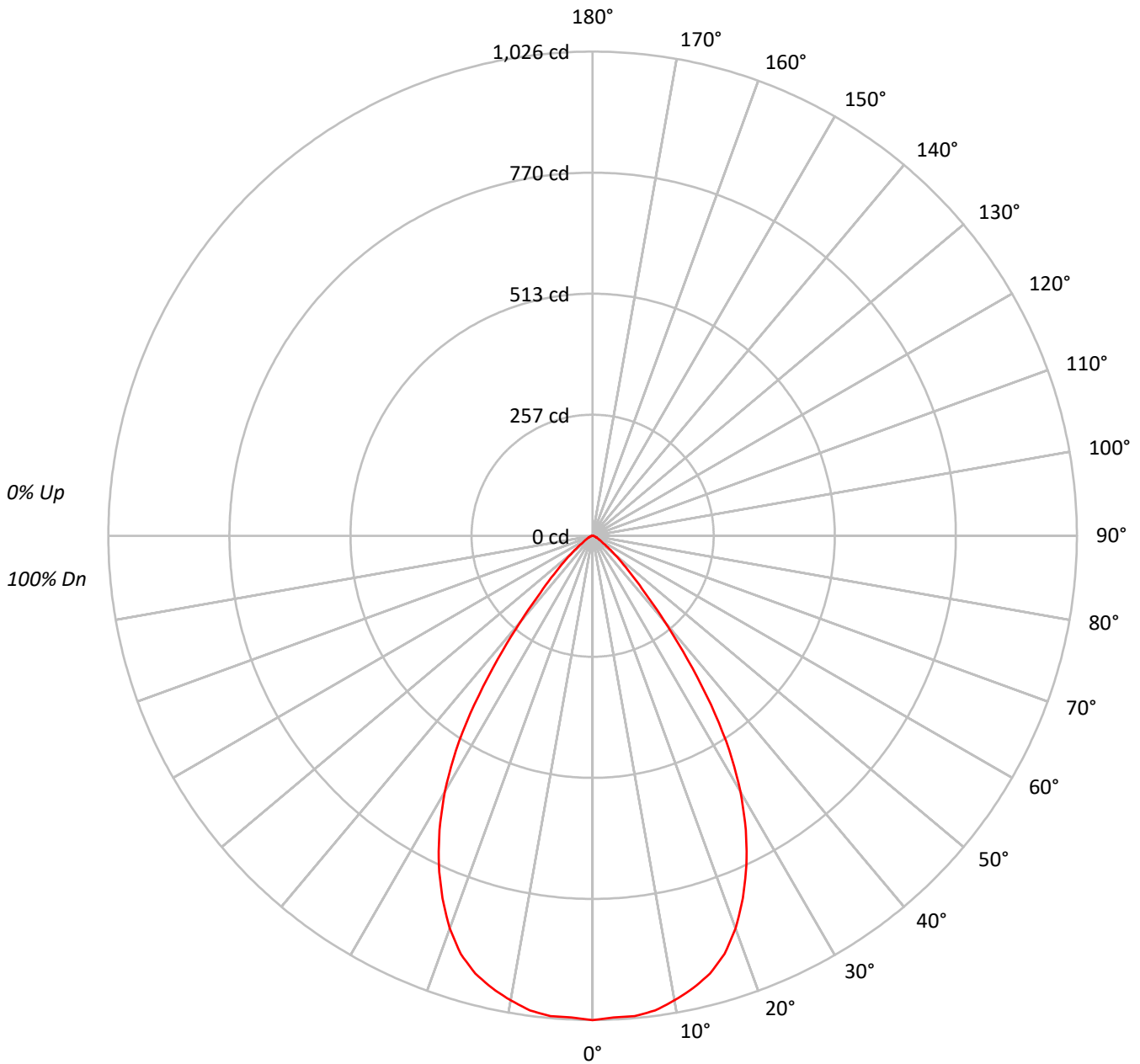
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	56273
5°	56224
10°	55644
15°	54524
20°	51647
25°	46642
30°	39620
35°	29252
40°	16917
45°	8978
50°	5074
55°	2647
60°	1732
65°	1232
70°	882
75°	678
80°	505
85°	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	8.6
10°-20°	268.7	23.9
20°-30°	350.7	31.2
30°-40°	268.0	23.9
40°-50°	97.0	8.6
50°-60°	28.1	2.5
60°-70°	10.0	0.9
70°-80°	3.5	0.3
80°-90°	0.7	0.1
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°	716.2	63.7
0°-40°	984.2	87.6
0°-60°	1109.4	98.7
0°-90°	1123.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1123.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1026	
5°	1022	97
15°	961	269
25°	771	351
35°	437	268
45°	116	97
55°	28	28
65°	10	10
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1026.5
2.5°	1021.7
5°	1021.7
7.5°	1014.6
10°	999.6
12.5°	982.1
15°	960.7
17.5°	928.9
20°	885.3
22.5°	831.3
25°	771.1
27.5°	702.9
30°	625.9
32.5°	539.4
35°	437.1
37.5°	330.0
40°	236.4
42.5°	163.5
45°	115.8
47.5°	83.3
50°	59.5
52.5°	42.0
55°	27.7
57.5°	19.8
60°	15.8
62.5°	12.7
65°	9.5
67.5°	7.9
70°	5.5
72.5°	4.0
75°	3.2
77.5°	2.4
80°	1.6
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)