

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: P593073

Luminaire Tested: **HC610D010-HM60525950-61NDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525950-61NDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1035.5 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

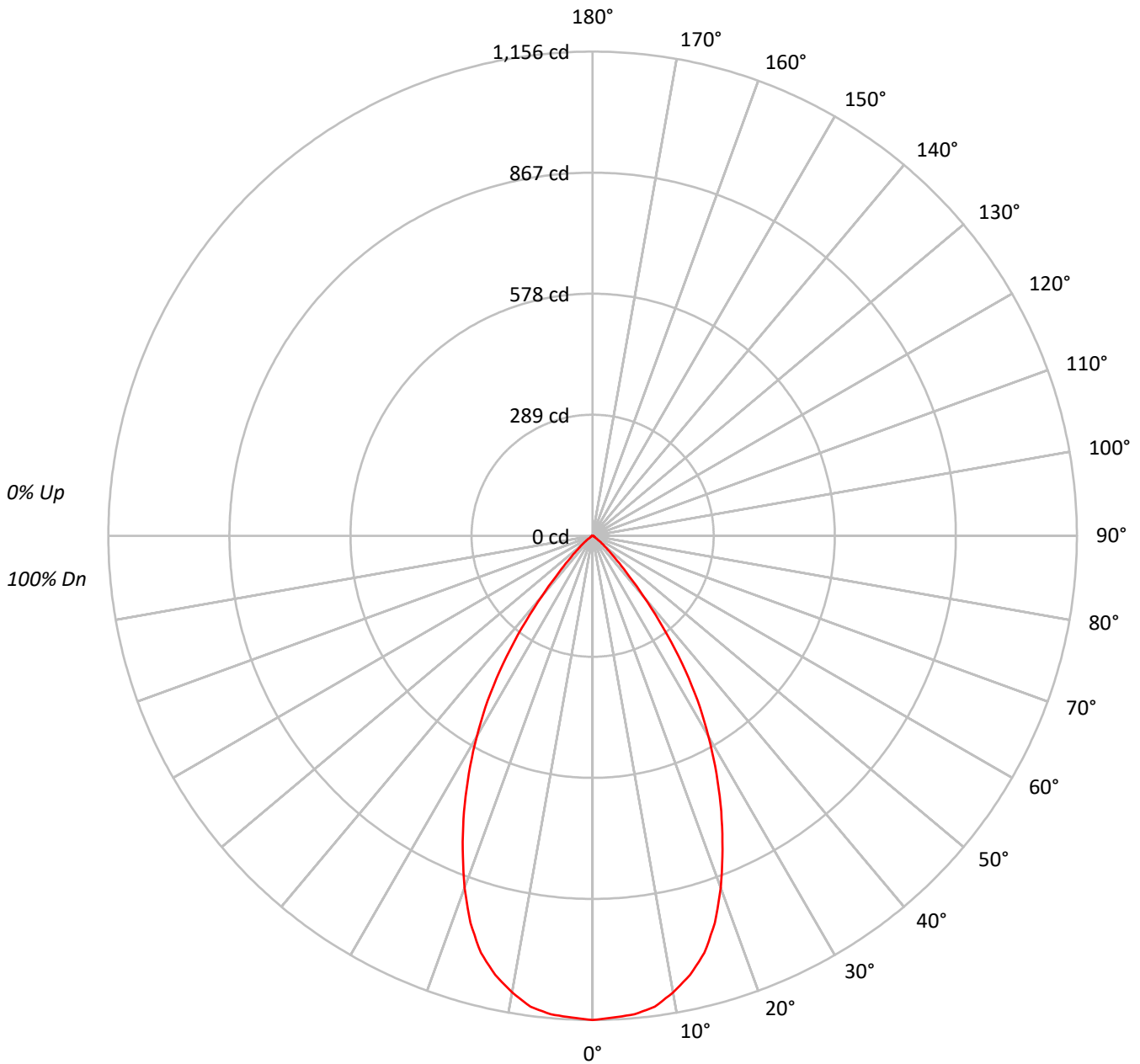
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	66	62	61			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	63383
5°	63113
10°	61622
15°	58496
20°	52137
25°	43920
30°	34993
35°	24962
40°	13425
45°	5745
50°	2618
55°	956
60°	471
65°	363
70°	353
75°	148
80°	221
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	10.5
10°-20°	285.7	27.6
20°-30°	330.9	32.0
30°-40°	228.8	22.1
40°-50°	66.1	6.4
50°-60°	11.4	1.1
60°-70°	2.9	0.3
70°-80°	1.1	0.1
80°-90°	0.3	0.0
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°	724.9	70.0
0°-40°	953.7	92.1
0°-60°	1031.1	99.6
0°-90°	1035.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1035.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1156	
5°	1147	108
15°	1031	286
25°	726	331
35°	373	229
45°	74	66
55°	10	11
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1156.2
2.5°	1151.2
5°	1146.9
7.5°	1134.2
10°	1107.0
12.5°	1074.2
15°	1030.7
17.5°	969.3
20°	893.7
22.5°	810.3
25°	726.1
27.5°	639.8
30°	552.8
32.5°	465.8
35°	373.0
37.5°	276.8
40°	187.6
42.5°	118.4
45°	74.1
47.5°	47.8
50°	30.7
52.5°	18.6
55°	10.0
57.5°	5.7
60°	4.3
62.5°	3.6
65°	2.8
67.5°	2.2
70°	2.2
72.5°	1.5
75°	0.7
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)