

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: P581771

Luminaire Tested: **HC615D010-HM60525927-61NDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581771
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: HC615D010-HM60525927-61NDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1215.8 lumens
Efficiency: N/A
Efficacy: 86.8 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

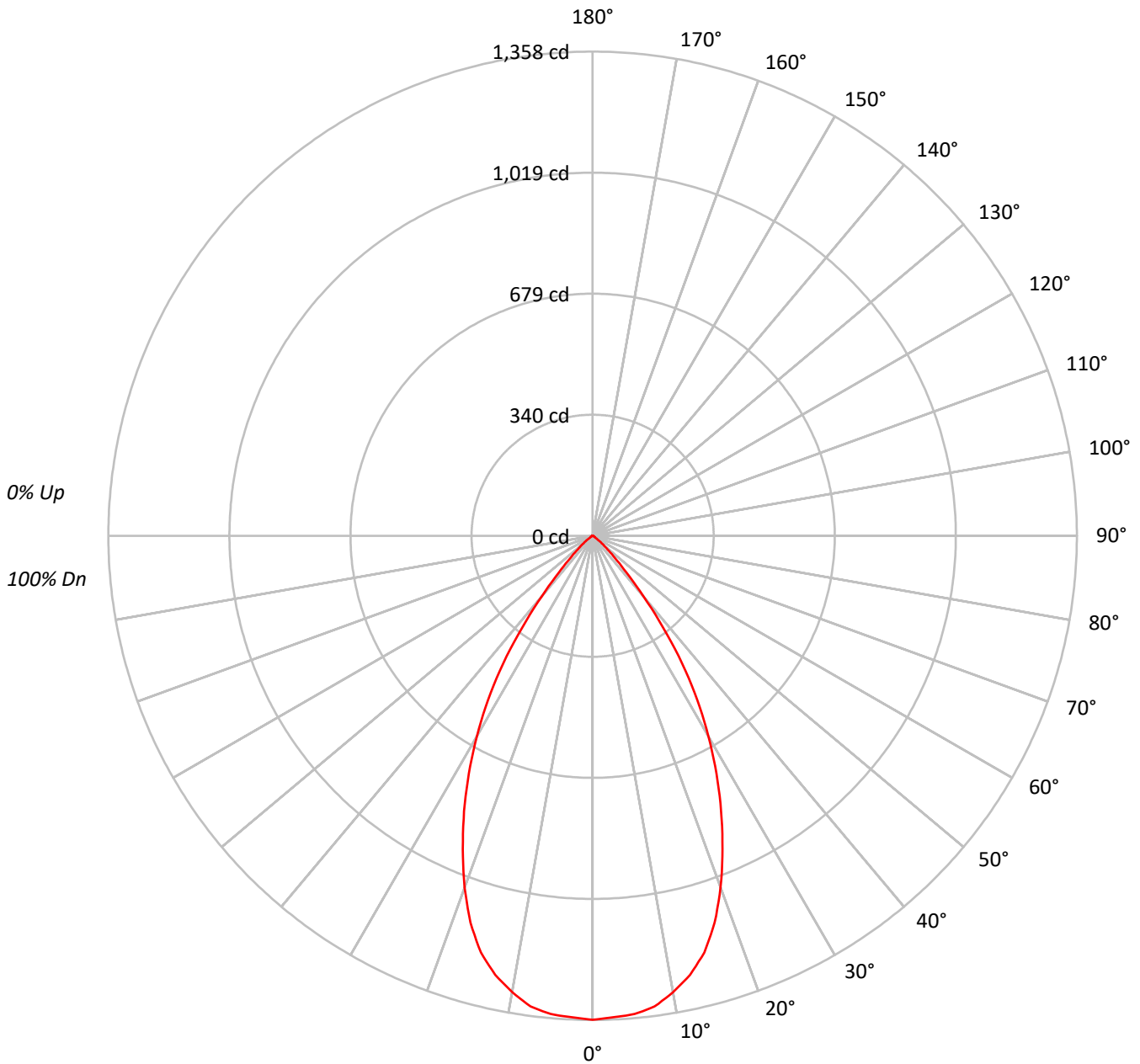
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	78	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°	74424
5°	74108
10°	72354
15°	68689
20°	61220
25°	51572
30°	41089
35°	29312
40°	15765
45°	6753
50°	3070
55°	1118
60°	548
65°	441
70°	401
75°	169
80°	253
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	10.5
10°-20°	335.5	27.6
20°-30°	388.6	32.0
30°-40°	268.7	22.1
40°-50°	77.6	6.4
50°-60°	13.3	1.1
60°-70°	3.4	0.3
70°-80°	1.3	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°	851.1	70.0
0°-40°	1119.8	92.1
0°-60°	1210.7	99.6
0°-90°	1215.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1215.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1358	
5°	1347	127
15°	1210	335
25°	853	389
35°	438	269
45°	87	78
55°	12	13
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1357.6
2.5°	1351.8
5°	1346.7
7.5°	1331.7
10°	1299.8
12.5°	1261.3
15°	1210.3
17.5°	1138.2
20°	1049.4
22.5°	951.5
25°	852.6
27.5°	751.3
30°	649.1
32.5°	546.8
35°	438.0
37.5°	325.0
40°	220.3
42.5°	139.0
45°	87.1
47.5°	56.1
50°	36.0
52.5°	21.8
55°	11.7
57.5°	6.7
60°	5.0
62.5°	4.2
65°	3.4
67.5°	2.5
70°	2.5
72.5°	1.7
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)