

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: P593114

Luminaire Tested: **HC615D010-HM60525950-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525950-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1571.6 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

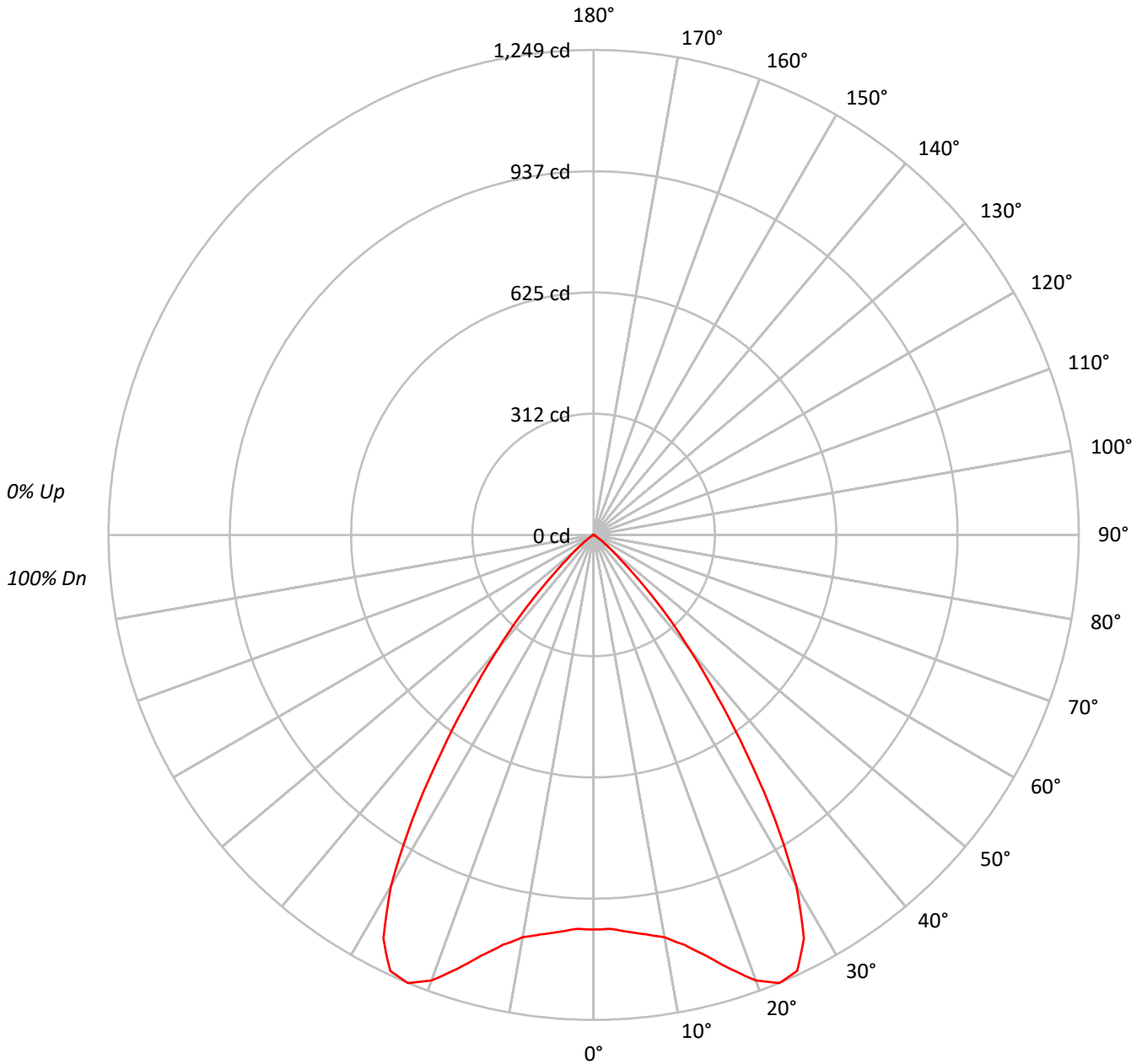
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593114

CATALOG NUMBER: HC615D010-HM60525950-61WDC

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	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93		
2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	82	88	84	81	85	82	80	78		
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	74	72		
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61		
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56		
8	76	65	59	54	74	65	59	54	64	58	54	62	57	54	61	57	53	52		
9	71	61	55	50	70	60	54	50	60	54	50	59	53	50	58	53	50	48		
10	68	57	51	47	67	57	51	47	56	50	46	55	50	46	54	50	46	45		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55719
5°	56471
10°	58583
15°	63706
20°	71231
25°	74974
30°	65997
35°	45782
40°	27337
45°	12994
50°	4904
55°	2055
60°	647
65°	506
70°	305
75°	212
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	6.3
10°-20°	322.3	20.5
20°-30°	552.3	35.1
30°-40°	429.0	27.3
40°-50°	141.8	9.0
50°-60°	21.8	1.4
60°-70°	3.9	0.2
70°-80°	1.4	0.1
80°-90°	0.4	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°	973.4	61.9
0°-40°	1402.4	89.2
0°-60°	1566.0	99.6
0°-90°	1571.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1571.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1016	
5°	1026	99
15°	1122	322
25°	1240	552
35°	684	429
45°	168	142
55°	22	22
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1016.4
2.5°	1015.4
5°	1026.2
7.5°	1037.8
10°	1052.4
12.5°	1081.7
15°	1122.5
17.5°	1172.2
20°	1221.0
22.5°	1249.3
25°	1239.5
27.5°	1172.2
30°	1042.6
32.5°	868.3
35°	684.1
37.5°	519.4
40°	382.0
42.5°	269.9
45°	167.6
47.5°	93.5
50°	57.5
52.5°	35.1
55°	21.5
57.5°	10.7
60°	5.9
62.5°	4.9
65°	3.9
67.5°	3.0
70°	1.9
72.5°	1.9
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)