

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: P581761

Luminaire Tested: **HC615D010-HM60525840-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525840-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1632.7 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

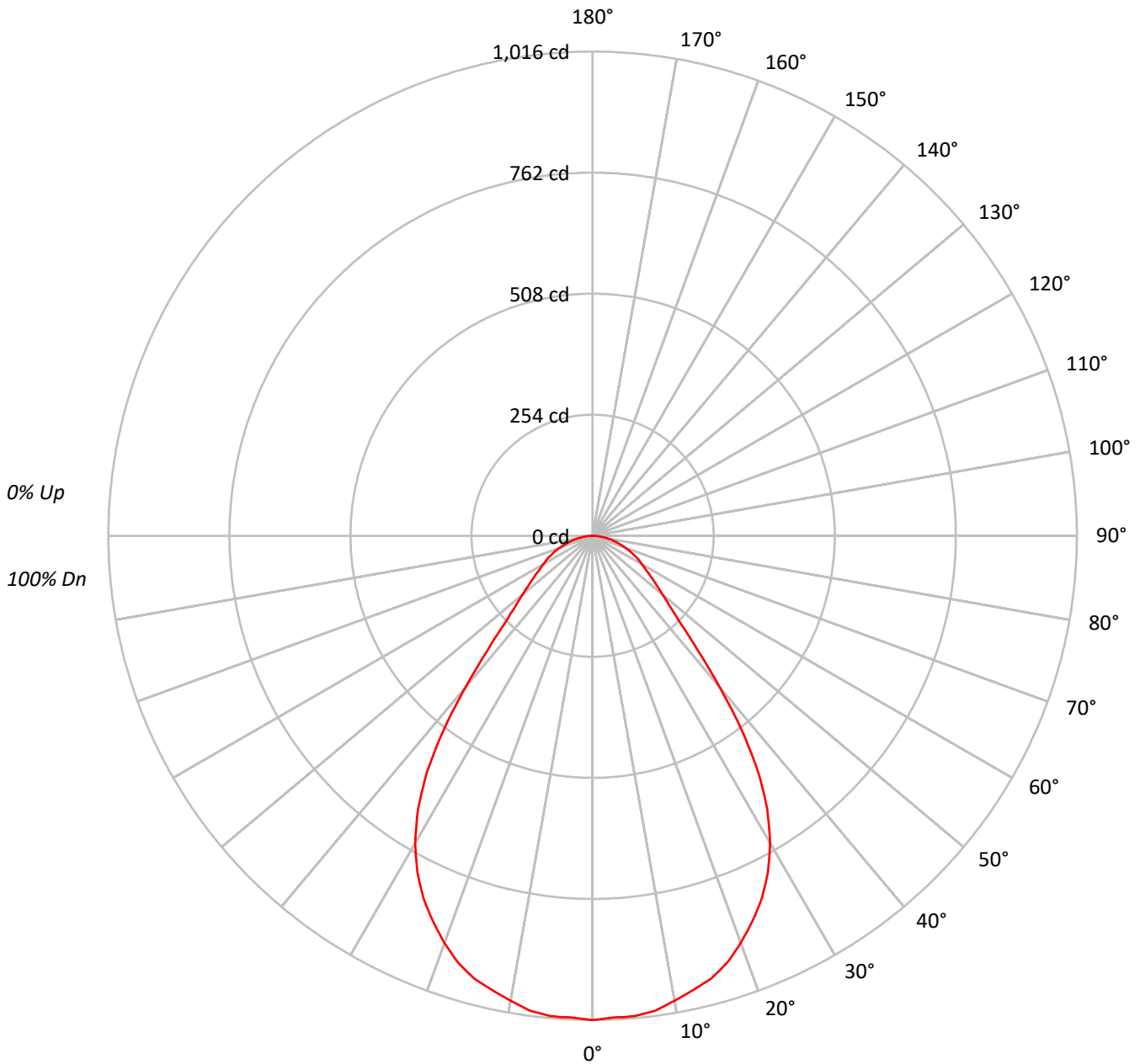
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	66	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	76	66	59	54	64	58	53	63	57	53	61	56	52	51			
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55719
5°	55684
10°	55143
15°	54575
20°	53030
25°	50791
30°	47140
35°	40555
40°	29605
45°	20281
50°	16307
55°	14212
60°	13113
65°	12466
70°	11637
75°	10887
80°	9881
85°	8428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	5.9
10°-20°	270.1	16.5
20°-30°	384.1	23.5
30°-40°	369.8	22.6
40°-50°	212.8	13.0
50°-60°	134.8	8.3
60°-70°	95.4	5.8
70°-80°	54.4	3.3
80°-90°	15.5	1.0
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°	750.1	45.9
0°-40°	1119.8	68.6
0°-60°	1467.4	89.9
0°-90°	1632.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1016	
5°	1012	96
15°	962	270
25°	840	384
35°	606	370
45°	262	213
55°	149	135
65°	96	95
75°	51	54
85°	13	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1016.4
2.5°	1011.9
5°	1011.9
7.5°	1005.2
10°	990.6
12.5°	976.1
15°	961.6
17.5°	939.2
20°	909.0
22.5°	875.5
25°	839.7
27.5°	796.1
30°	744.7
32.5°	682.0
35°	606.0
37.5°	513.2
40°	413.7
42.5°	326.5
45°	261.6
47.5°	220.3
50°	191.2
52.5°	167.8
55°	148.7
57.5°	131.9
60°	119.6
62.5°	108.5
65°	96.1
67.5°	85.0
70°	72.6
72.5°	61.5
75°	51.4
77.5°	41.4
80°	31.3
82.5°	22.4
85°	13.4
87.5°	5.6
90°	0.0



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— 0°-180°







(END OF REPORT)