

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: P581700

Luminaire Tested: **HC615D010-HM60525827-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525827-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1349.2 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

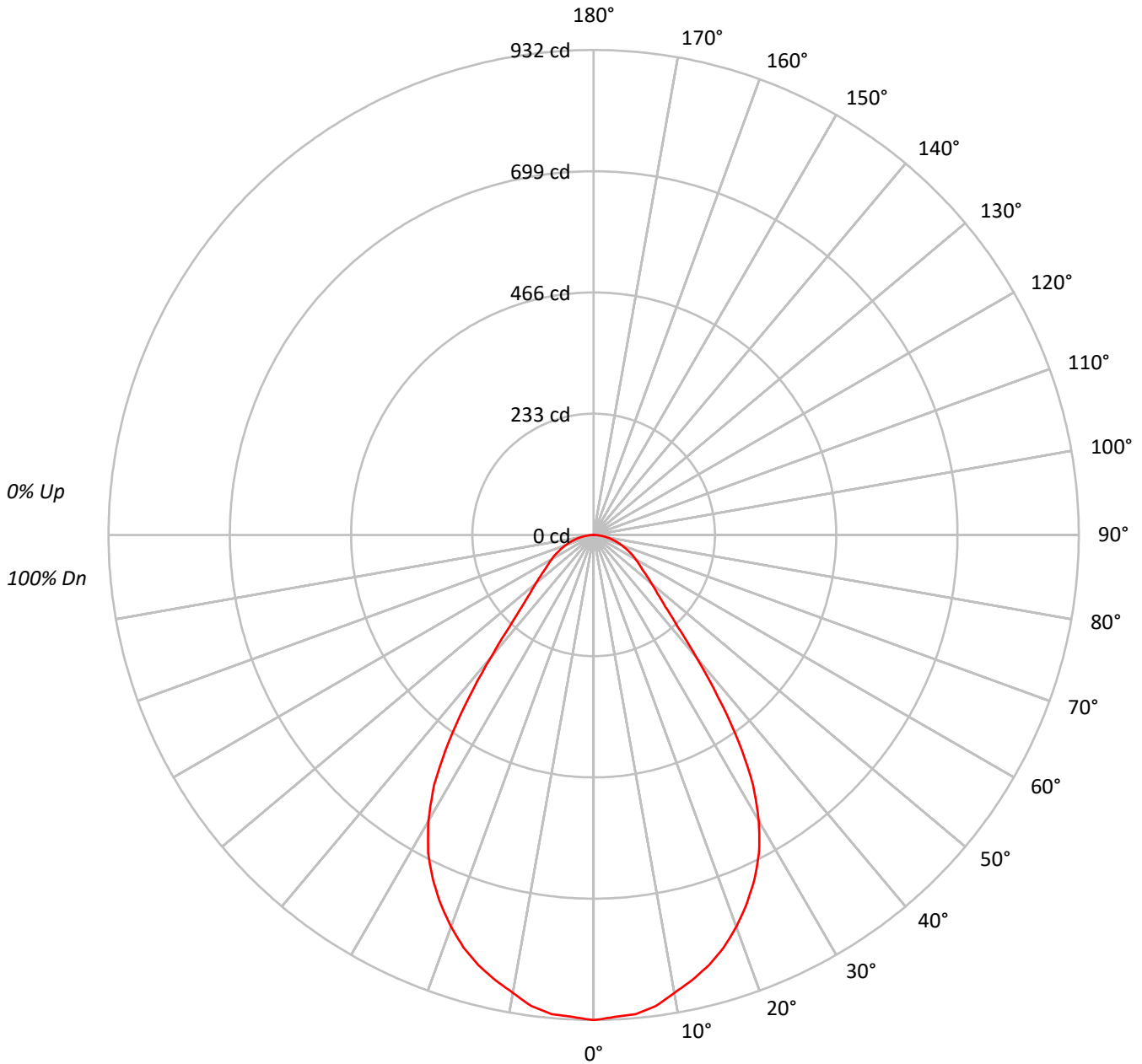
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79			79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57			57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48			48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44			44
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41			41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	51109
5°	50864
10°	49743
15°	48576
20°	46752
25°	44210
30°	40183
35°	32525
40°	21927
45°	15071
50°	12349
55°	10800
60°	10218
65°	9638
70°	9056
75°	8599
80°	7798
85°	6856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	6.5
10°-20°	240.4	17.8
20°-30°	333.9	24.8
30°-40°	297.3	22.0
40°-50°	157.8	11.7
50°-60°	103.2	7.6
60°-70°	74.0	5.5
70°-80°	42.9	3.2
80°-90°	12.5	0.9
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°	661.6	49.0
0°-40°	958.9	71.1
0°-60°	1219.9	90.4
0°-90°	1349.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1349.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	932	
5°	924	87
15°	856	240
25°	731	334
35°	486	297
45°	194	158
55°	113	103
65°	74	74
75°	41	43
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	932.3
2.5°	927.3
5°	924.3
7.5°	913.4
10°	893.6
12.5°	875.8
15°	855.9
17.5°	831.2
20°	801.4
22.5°	767.7
25°	730.9
27.5°	688.3
30°	634.8
32.5°	570.3
35°	486.0
37.5°	392.7
40°	306.4
42.5°	238.0
45°	194.4
47.5°	165.6
50°	144.8
52.5°	127.9
55°	113.0
57.5°	102.2
60°	93.2
62.5°	84.3
65°	74.3
67.5°	65.5
70°	56.5
72.5°	48.6
75°	40.6
77.5°	32.7
80°	24.7
82.5°	17.8
85°	10.9
87.5°	5.0
90°	0.0



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— 0°-180°







(END OF REPORT)