

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: P581808

Luminaire Tested: **HC615D010-HM60525935-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581808
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-HM60525935-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1309.7 lumens
Efficiency: N/A
Efficacy: 93.6 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

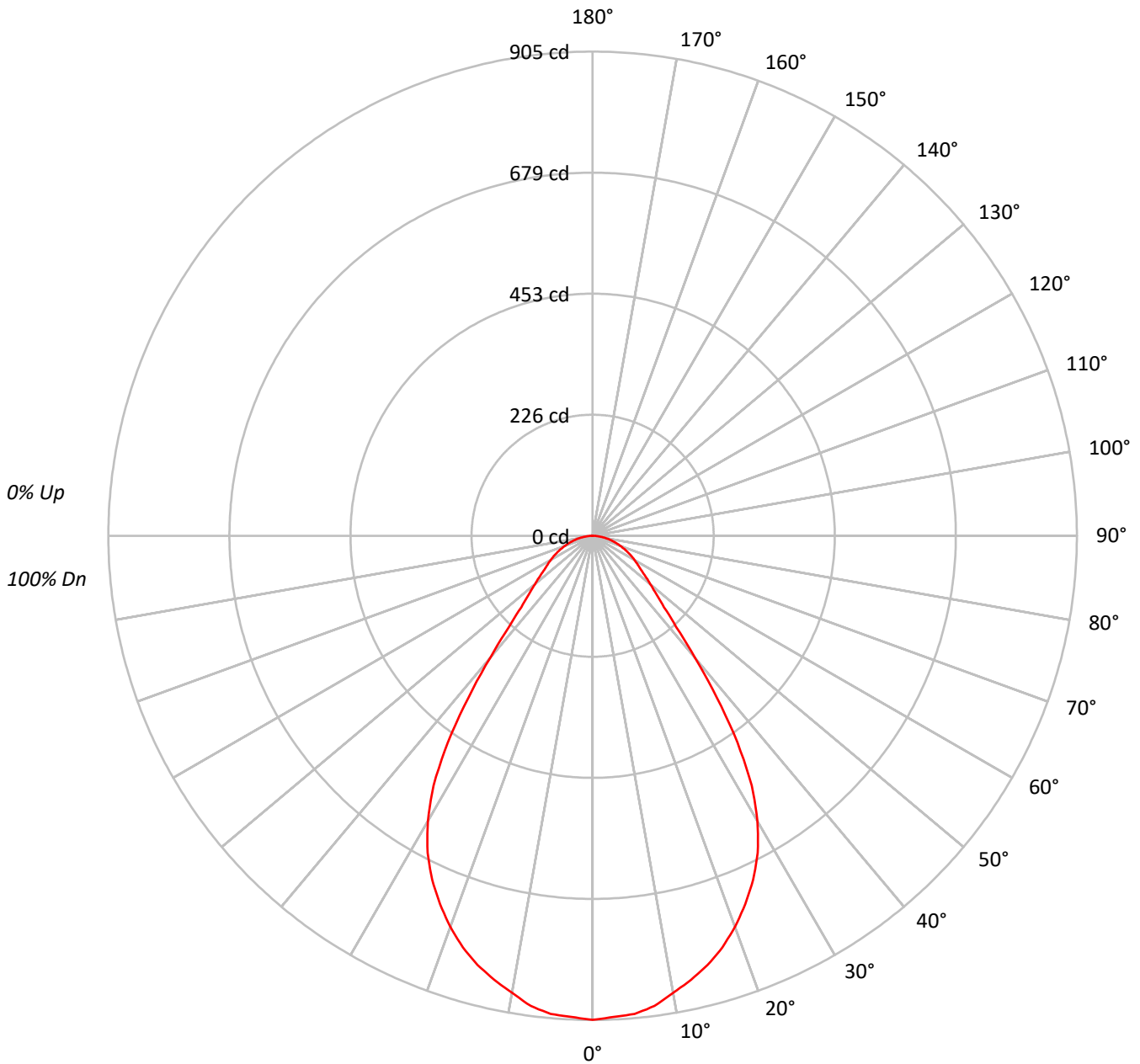
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49601
5°	49373
10°	48285
15°	47146
20°	45376
25°	42916
30°	39000
35°	31568
40°	21290
45°	14622
50°	11983
55°	10494
60°	9922
65°	9365
70°	8784
75°	8366
80°	7608
85°	6667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	6.5
10°-20°	233.3	17.8
20°-30°	324.1	24.7
30°-40°	288.6	22.0
40°-50°	153.2	11.7
50°-60°	100.2	7.7
60°-70°	71.8	5.5
70°-80°	41.7	3.2
80°-90°	12.2	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°	642.1	49.0
0°-40°	930.7	71.1
0°-60°	1184.1	90.4
0°-90°	1309.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	905	
5°	897	85
15°	831	233
25°	710	324
35°	472	289
45°	189	153
55°	110	100
65°	72	72
75°	40	42
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	904.8
2.5°	900.1
5°	897.2
7.5°	886.5
10°	867.4
12.5°	850.0
15°	830.7
17.5°	806.6
20°	777.8
22.5°	745.1
25°	709.5
27.5°	668.1
30°	616.1
32.5°	553.5
35°	471.7
37.5°	381.2
40°	297.5
42.5°	231.1
45°	188.6
47.5°	160.7
50°	140.5
52.5°	124.2
55°	109.8
57.5°	99.2
60°	90.5
62.5°	81.8
65°	72.2
67.5°	63.6
70°	54.8
72.5°	47.2
75°	39.5
77.5°	31.8
80°	24.1
82.5°	17.4
85°	10.6
87.5°	4.8
90°	0.0



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— 0°-180°







(END OF REPORT)