

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: P581827

Luminaire Tested: **HC615D010-HM60525940-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525940-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1379.7 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

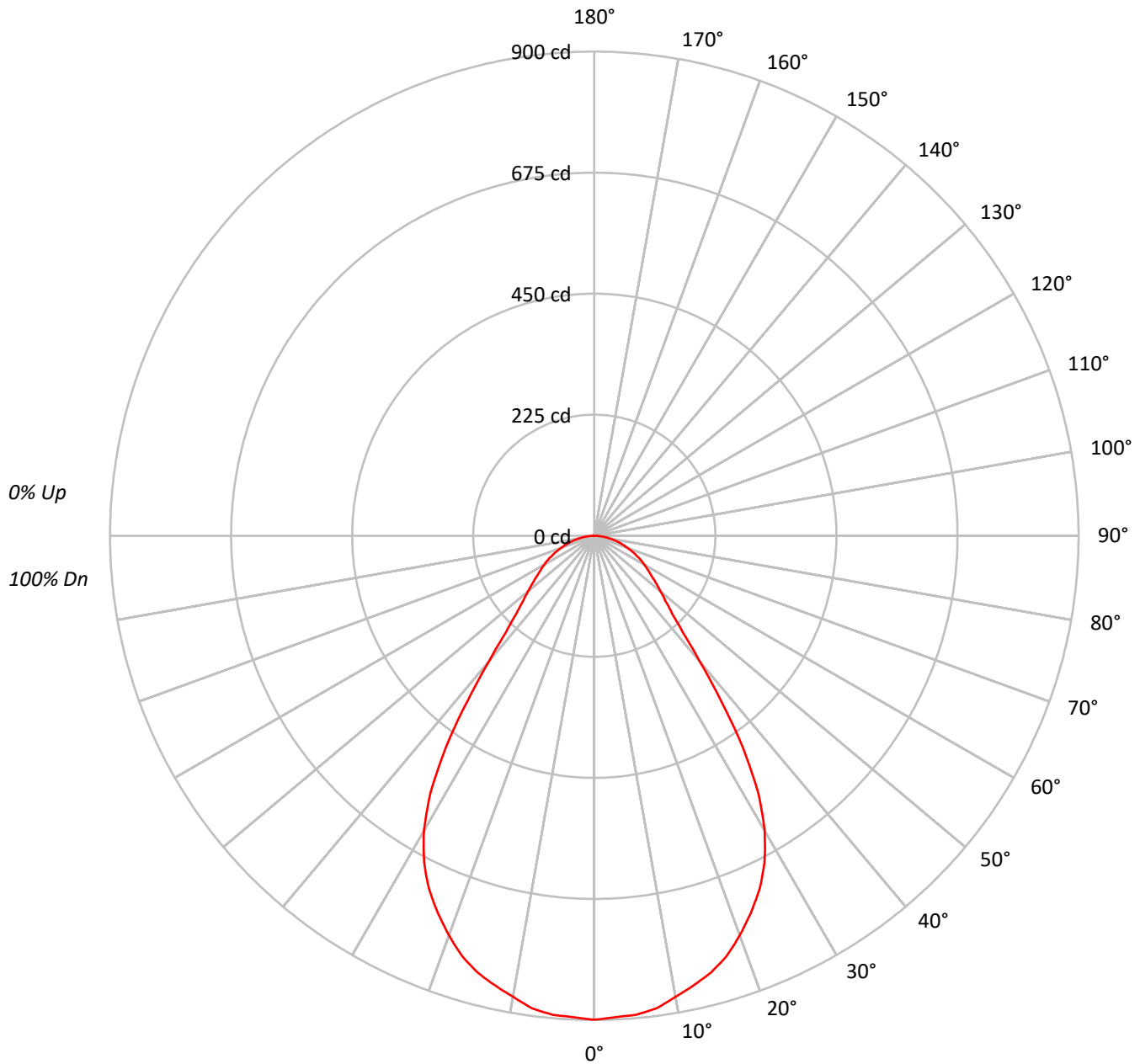
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78		
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69		
4	89	80	72	67	87	78	72	66	76	70	65	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	77	66	59	54	64	58	53	63	57	53	61	56	53	51		
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46		
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49311
5°	49180
10°	48446
15°	47679
20°	46111
25°	43920
30°	40095
35°	32284
40°	21762
45°	15862
50°	13714
55°	12387
60°	11764
65°	11130
70°	10467
75°	9913
80°	9250
85°	8554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	6.1
10°-20°	235.9	17.1
20°-30°	331.5	24.0
30°-40°	295.0	21.4
40°-50°	164.9	11.9
50°-60°	117.5	8.5
60°-70°	85.5	6.2
70°-80°	49.5	3.6
80°-90°	15.4	1.1
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°	652.0	47.3
0°-40°	947.0	68.6
0°-60°	1229.3	89.1
0°-90°	1379.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1379.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	900	
5°	894	85
15°	840	236
25°	726	331
35°	482	295
45°	205	165
55°	130	117
65°	86	85
75°	47	49
85°	14	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	899.5
2.5°	895.6
5°	893.7
7.5°	885.9
10°	870.3
12.5°	855.7
15°	840.1
17.5°	818.7
20°	790.4
22.5°	759.2
25°	726.1
27.5°	685.1
30°	633.4
32.5°	567.2
35°	482.4
37.5°	386.9
40°	304.1
42.5°	242.7
45°	204.6
47.5°	179.3
50°	160.8
52.5°	144.3
55°	129.6
57.5°	117.9
60°	107.3
62.5°	97.5
65°	85.8
67.5°	76.0
70°	65.3
72.5°	55.5
75°	46.8
77.5°	38.0
80°	29.3
82.5°	21.5
85°	13.6
87.5°	6.8
90°	0.0



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— 0°-180°







(END OF REPORT)