

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: P593099

Luminaire Tested: **HC615D010-HM60525850-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593099
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-HM60525850-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1583.6 lumens
Efficiency: N/A
Efficacy: 113.1 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

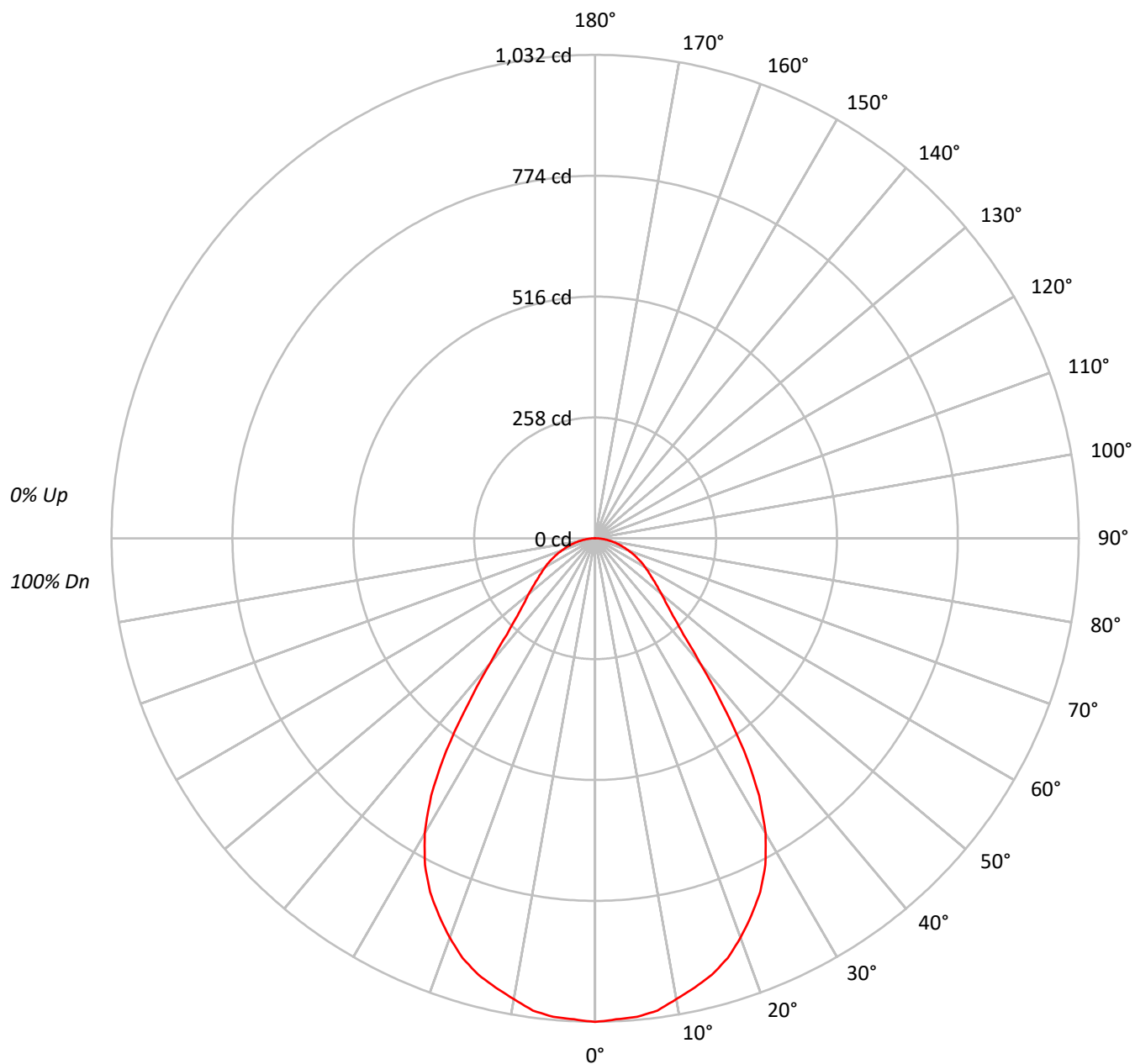
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	56602
5°	56444
10°	55605
15°	54722
20°	52925
25°	50404
30°	46026
35°	37055
40°	24975
45°	18211
50°	15744
55°	14222
60°	13486
65°	12764
70°	12005
75°	11374
80°	10607
85°	9875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	6.1
10°-20°	270.8	17.1
20°-30°	380.4	24.0
30°-40°	338.6	21.4
40°-50°	189.2	12.0
50°-60°	134.9	8.5
60°-70°	98.1	6.2
70°-80°	56.8	3.6
80°-90°	17.7	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°	748.3	47.3
0°-40°	1086.9	68.6
0°-60°	1411.0	89.1
0°-90°	1583.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1583.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1032	
5°	1026	97
15°	964	271
25°	833	380
35°	554	339
45°	235	189
55°	149	135
65°	98	98
75°	54	57
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1032.5
2.5°	1028.0
5°	1025.7
7.5°	1016.8
10°	998.9
12.5°	982.1
15°	964.2
17.5°	939.7
20°	907.2
22.5°	871.3
25°	833.3
27.5°	786.3
30°	727.1
32.5°	651.0
35°	553.7
37.5°	444.1
40°	349.0
42.5°	278.5
45°	234.9
47.5°	205.8
50°	184.6
52.5°	165.6
55°	148.8
57.5°	135.4
60°	123.0
62.5°	111.9
65°	98.4
67.5°	87.3
70°	74.9
72.5°	63.8
75°	53.7
77.5°	43.6
80°	33.6
82.5°	24.6
85°	15.7
87.5°	7.8
90°	0.0



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— 0°-180°







(END OF REPORT)