

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: P581773

Luminaire Tested: **HC615D010-HM60525927-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581773
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-HM60525927-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1185.7 lumens
Efficiency: N/A
Efficacy: 84.7 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

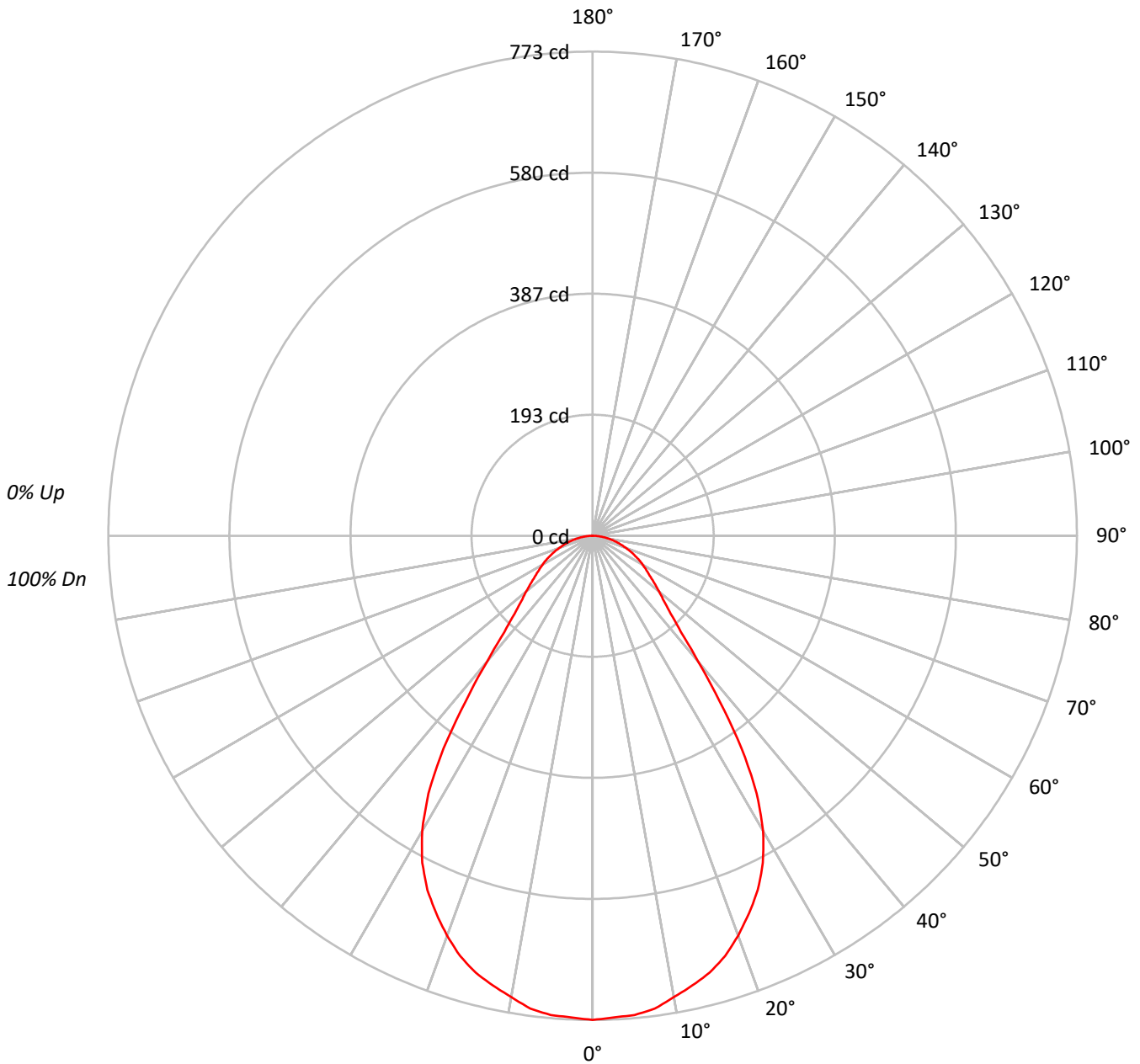
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	42376
5°	42268
10°	41632
15°	40976
20°	39623
25°	37738
30°	34455
35°	27746
40°	18699
45°	13637
50°	11786
55°	10638
60°	10109
65°	9560
70°	8992
75°	8515
80°	7924
85°	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	6.1
10°-20°	202.7	17.1
20°-30°	284.8	24.0
30°-40°	253.5	21.4
40°-50°	141.7	12.0
50°-60°	100.9	8.5
60°-70°	73.5	6.2
70°-80°	42.5	3.6
80°-90°	13.2	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°	560.2	47.3
0°-40°	813.8	68.6
0°-60°	1056.4	89.1
0°-90°	1185.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1185.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	773	
5°	768	73
15°	722	203
25°	624	285
35°	415	254
45°	176	142
55°	111	101
65°	74	73
75°	40	43
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	773.0
2.5°	769.6
5°	768.1
7.5°	761.4
10°	747.9
12.5°	735.4
15°	722.0
17.5°	703.5
20°	679.2
22.5°	652.4
25°	623.9
27.5°	588.7
30°	544.3
32.5°	487.5
35°	414.6
37.5°	332.4
40°	261.3
42.5°	208.5
45°	175.9
47.5°	154.1
50°	138.2
52.5°	123.9
55°	111.3
57.5°	101.4
60°	92.2
62.5°	83.8
65°	73.7
67.5°	65.4
70°	56.1
72.5°	47.8
75°	40.2
77.5°	32.7
80°	25.1
82.5°	18.4
85°	11.7
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)