

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: P581989

Luminaire Tested: **HC625D010-HM60525827-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581989
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: HC625D010-HM60525827-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2350.5 lumens
Efficiency: N/A
Efficacy: 87.7 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

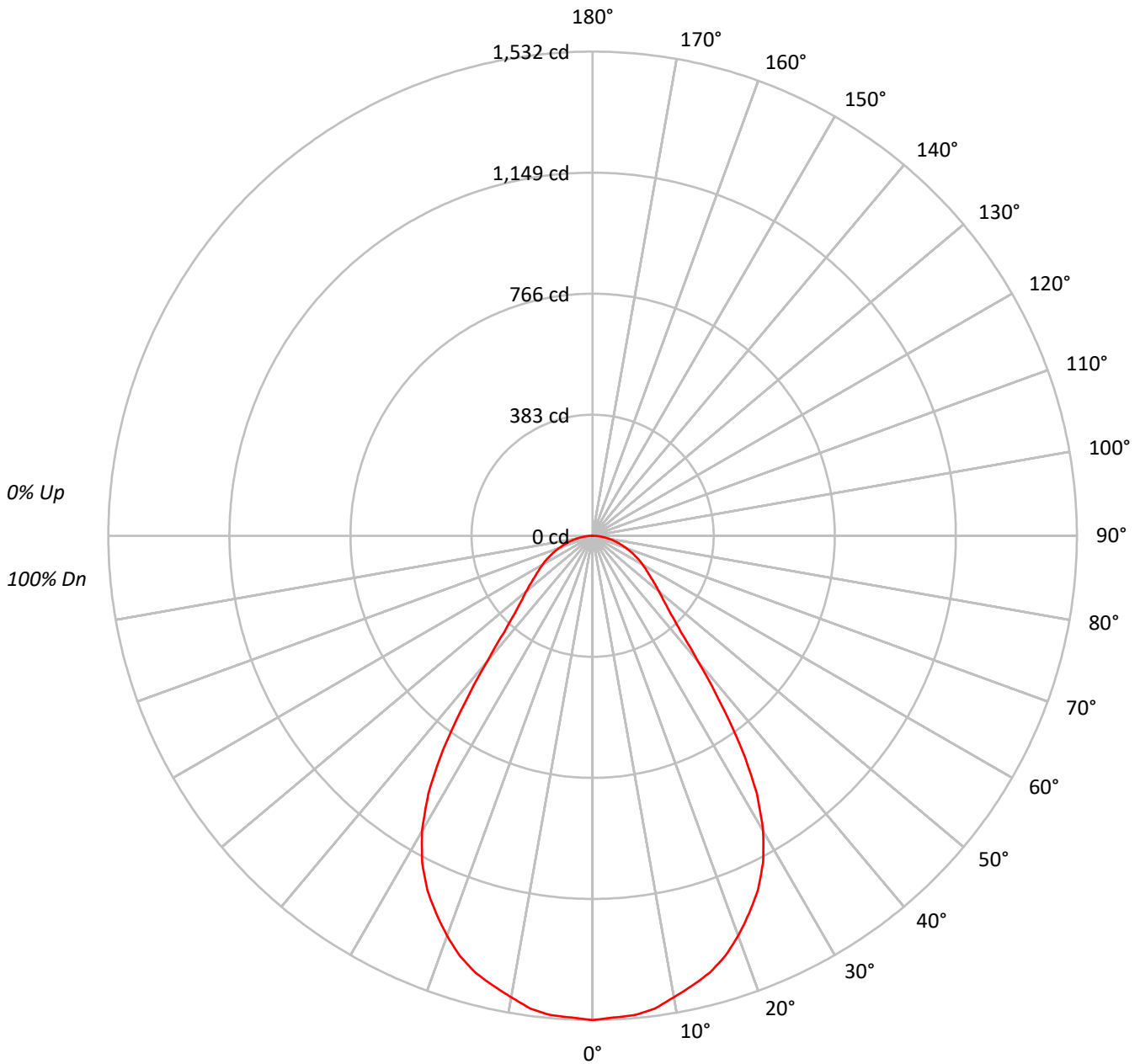
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	84006
5°	83777
10°	82525
15°	81226
20°	78553
25°	74811
30°	68314
35°	54997
40°	37069
45°	27034
50°	23360
55°	21103
60°	20031
65°	18951
70°	17840
75°	16881
80°	15753
85°	14655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	6.1
10°-20°	401.9	17.1
20°-30°	564.6	24.0
30°-40°	502.6	21.4
40°-50°	280.9	12.0
50°-60°	200.1	8.5
60°-70°	145.6	6.2
70°-80°	84.3	3.6
80°-90°	26.3	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°	1110.6	47.3
0°-40°	1613.3	68.6
0°-60°	2094.3	89.1
0°-90°	2350.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2350.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1532	
5°	1522	144
15°	1431	402
25°	1237	565
35°	822	503
45°	349	281
55°	221	200
65°	146	146
75°	80	84
85°	23	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1532.4
2.5°	1525.8
5°	1522.4
7.5°	1509.1
10°	1482.5
12.5°	1457.7
15°	1431.2
17.5°	1394.6
20°	1346.5
22.5°	1293.3
25°	1236.8
27.5°	1167.2
30°	1079.2
32.5°	966.3
35°	821.8
37.5°	659.1
40°	518.0
42.5°	413.4
45°	348.7
47.5°	305.5
50°	273.9
52.5°	245.7
55°	220.8
57.5°	200.9
60°	182.7
62.5°	166.0
65°	146.1
67.5°	129.6
70°	111.3
72.5°	94.6
75°	79.7
77.5°	64.8
80°	49.9
82.5°	36.6
85°	23.3
87.5°	11.7
90°	0.0



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— 0°-180°







(END OF REPORT)