

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: P593171

Luminaire Tested: **HC625D010-HM60525850-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593171
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-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: 2748.8 lumens
Efficiency: N/A
Efficacy: 102.6 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

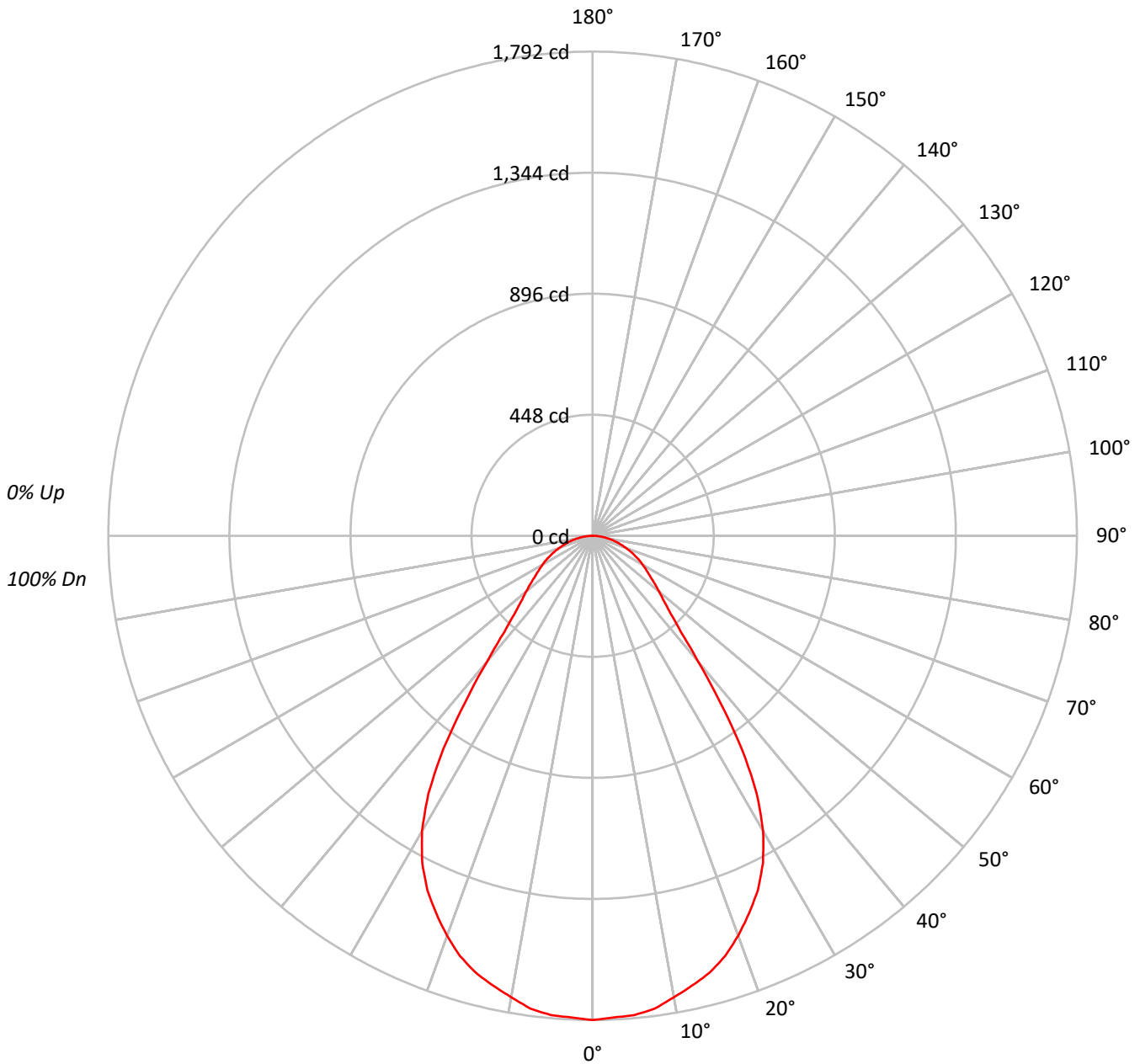
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	98249
5°	97986
10°	96525
15°	94995
20°	91871
25°	87501
30°	79892
35°	64326
40°	43353
45°	31608
50°	27325
55°	24678
60°	23419
65°	22168
70°	20853
75°	19741
80°	18405
85°	17109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	6.1
10°-20°	470.0	17.1
20°-30°	660.4	24.0
30°-40°	587.8	21.4
40°-50°	328.5	12.0
50°-60°	234.0	8.5
60°-70°	170.3	6.2
70°-80°	98.6	3.6
80°-90°	30.6	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°	1298.9	47.3
0°-40°	1886.8	68.6
0°-60°	2449.3	89.1
0°-90°	2748.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1792	
5°	1781	169
15°	1674	470
25°	1447	660
35°	961	588
45°	408	328
55°	258	234
65°	171	170
75°	93	99
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1792.2
2.5°	1784.5
5°	1780.6
7.5°	1765.1
10°	1734.0
12.5°	1704.8
15°	1673.8
17.5°	1631.0
20°	1574.8
22.5°	1512.6
25°	1446.6
27.5°	1365.0
30°	1262.1
32.5°	1130.1
35°	961.2
37.5°	770.8
40°	605.8
42.5°	483.5
45°	407.7
47.5°	357.2
50°	320.4
52.5°	287.4
55°	258.2
57.5°	234.9
60°	213.6
62.5°	194.2
65°	170.9
67.5°	151.5
70°	130.1
72.5°	110.6
75°	93.2
77.5°	75.7
80°	58.3
82.5°	42.7
85°	27.2
87.5°	13.5
90°	0.0



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— 0°-180°







(END OF REPORT)