

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: P582907

Luminaire Tested: **HC605D010-HM60525840-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582907
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: HC605D010-HM60525840-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 709.1 lumens
Efficiency: N/A
Efficacy: 118.2 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

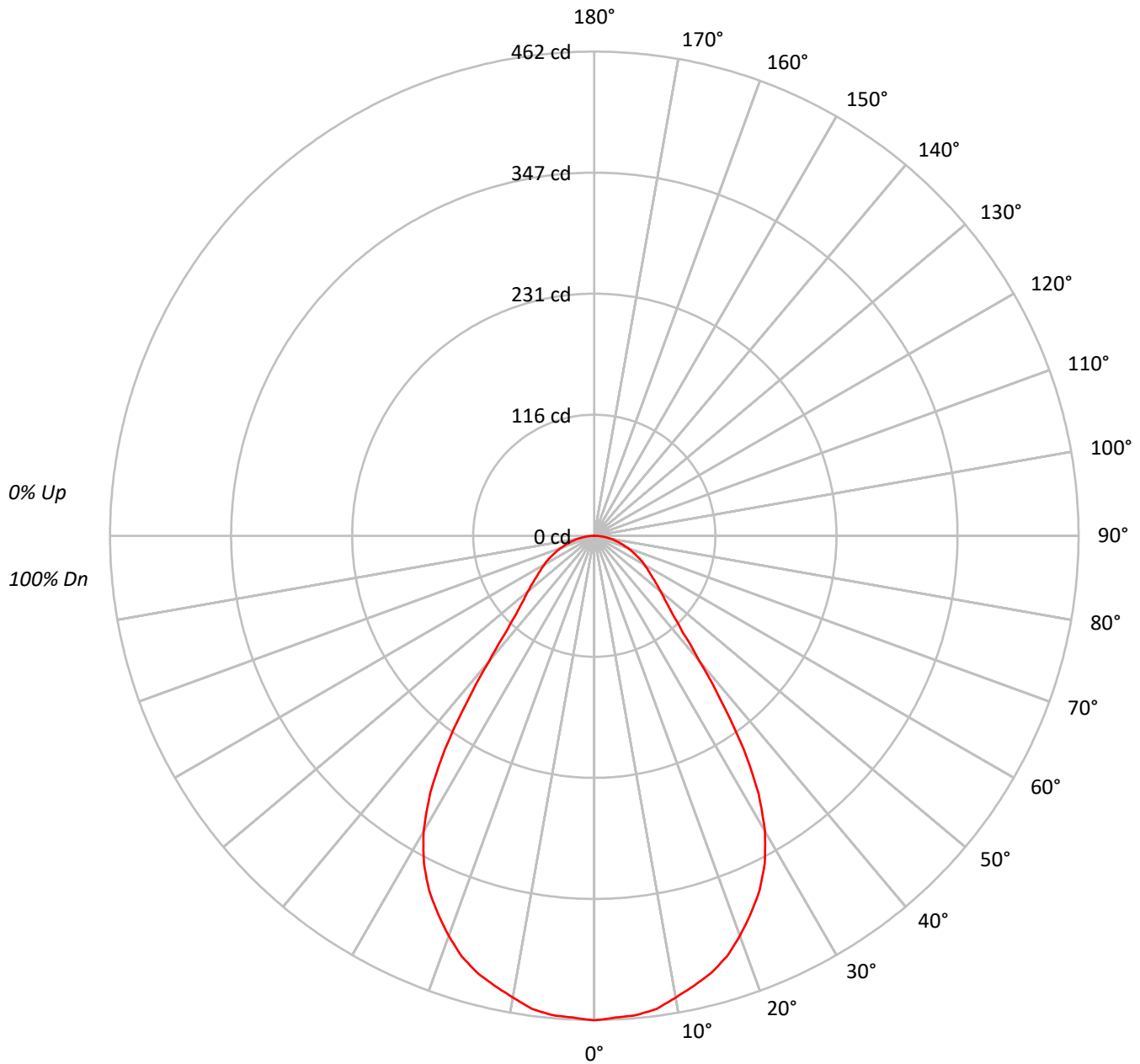
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	103	96	91	86	101	95	90	85		91	87	83			88	85	82			85
3	96	87	81	75	94	86	80	75		83	78	73			80	76	72			78
4	89	80	72	67	87	78	72	66		76	70	65			74	69	65			72
5	84	73	65	60	82	72	65	59		70	64	59			68	63	58			66
6	78	67	59	54	77	66	59	54		64	58	53			63	57	53			61
7	73	62	54	49	72	61	54	49		60	53	49			58	53	48			57
8	69	57	50	45	68	57	50	45		56	49	45			54	49	44			53
9	65	53	46	41	64	53	46	41		52	46	41			51	45	41			50
10	62	50	43	38	60	49	43	38		49	42	38			48	42	38			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25343
5°	25270
10°	24899
15°	24501
20°	23691
25°	22568
30°	20611
35°	16590
40°	11185
45°	8156
50°	7045
55°	6365
60°	6041
65°	5720
70°	5386
75°	5105
80°	4735
85°	4403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	6.1
10°-20°	121.2	17.1
20°-30°	170.3	24.0
30°-40°	151.6	21.4
40°-50°	84.7	12.0
50°-60°	60.4	8.5
60°-70°	43.9	6.2
70°-80°	25.5	3.6
80°-90°	7.9	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°	335.0	47.2
0°-40°	486.6	68.6
0°-60°	631.7	89.1
0°-90°	709.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	709.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	462	
5°	459	43
15°	432	121
25°	373	170
35°	248	152
45°	105	85
55°	67	60
65°	44	44
75°	24	25
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	462.3
2.5°	460.2
5°	459.2
7.5°	455.3
10°	447.3
12.5°	439.7
15°	431.7
17.5°	420.7
20°	406.1
22.5°	390.1
25°	373.1
27.5°	352.1
30°	325.6
32.5°	291.4
35°	247.9
37.5°	198.8
40°	156.3
42.5°	124.8
45°	105.2
47.5°	92.1
50°	82.6
52.5°	74.1
55°	66.6
57.5°	60.6
60°	55.1
62.5°	50.1
65°	44.1
67.5°	39.1
70°	33.6
72.5°	28.6
75°	24.1
77.5°	19.5
80°	15.0
82.5°	11.1
85°	7.0
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)