

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: P582349

Luminaire Tested: **HC635D010-HM63040927-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582349
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: HC635D010-HM63040927-61PSMDW
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: 2908.1 lumens
Efficiency: N/A
Efficacy: 86.3 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

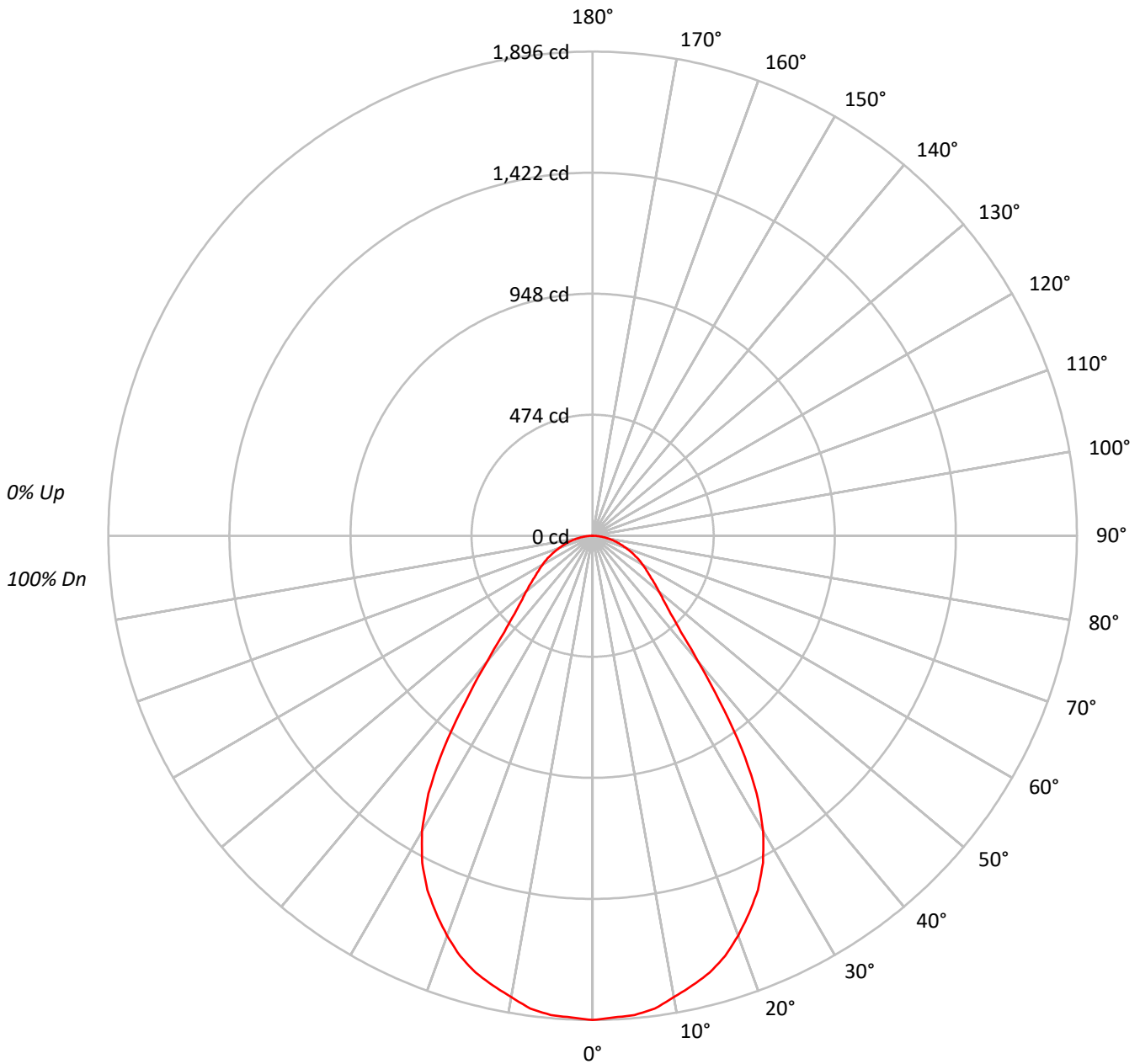
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	103939
5°	103665
10°	102113
15°	100500
20°	97192
25°	92570
30°	84526
35°	68047
40°	45865
45°	33445
50°	28903
55°	26111
60°	24768
65°	23453
70°	22055
75°	20884
80°	19447
85°	18052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	6.1
10°-20°	497.3	17.1
20°-30°	698.7	24.0
30°-40°	621.9	21.4
40°-50°	347.5	12.0
50°-60°	247.6	8.5
60°-70°	180.1	6.2
70°-80°	104.3	3.6
80°-90°	32.4	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°	1374.2	47.3
0°-40°	1996.1	68.6
0°-60°	2591.2	89.1
0°-90°	2908.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2908.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1896	
5°	1884	178
15°	1771	497
25°	1530	699
35°	1017	622
45°	431	348
55°	273	248
65°	181	180
75°	99	104
85°	29	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1896.0
2.5°	1887.9
5°	1883.8
7.5°	1867.3
10°	1834.4
12.5°	1803.6
15°	1770.8
17.5°	1725.5
20°	1666.0
22.5°	1600.3
25°	1530.4
27.5°	1444.2
30°	1335.3
32.5°	1195.6
35°	1016.8
37.5°	815.5
40°	640.9
42.5°	511.5
45°	431.4
47.5°	378.0
50°	338.9
52.5°	304.0
55°	273.2
57.5°	248.6
60°	225.9
62.5°	205.4
65°	180.8
67.5°	160.2
70°	137.6
72.5°	117.1
75°	98.6
77.5°	80.2
80°	61.6
82.5°	45.2
85°	28.7
87.5°	14.4
90°	0.0



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— 0°-180°







(END OF REPORT)