

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: P583087

Luminaire Tested: **HC655D010-HM64560930-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583087
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: HC655D010-HM64560930-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4757.6 lumens
Efficiency: N/A
Efficacy: 91.5 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

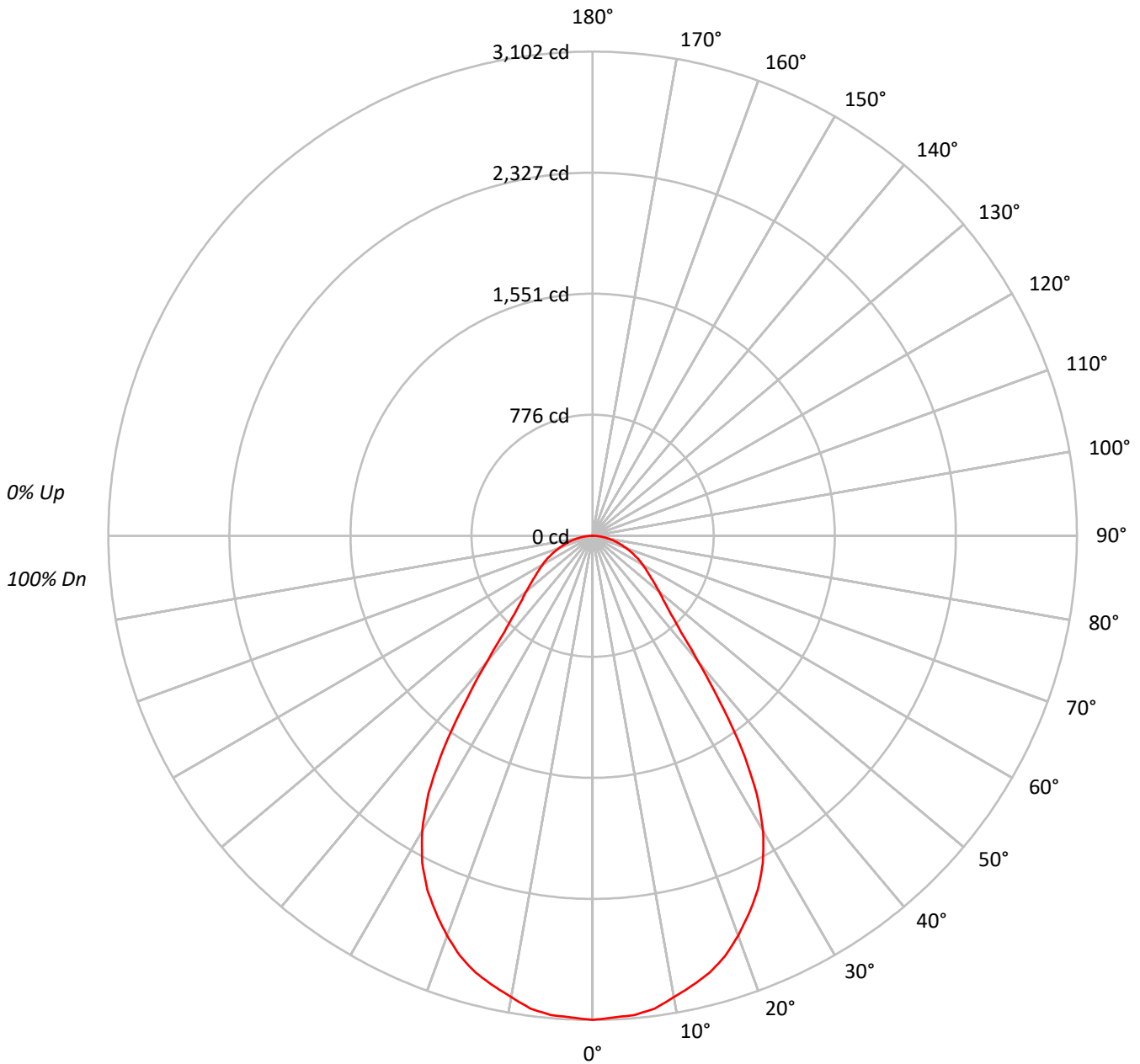
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	170041
5°	169585
10°	167053
15°	164411
20°	159001
25°	151442
30°	138274
35°	111327
40°	75033
45°	54719
50°	47291
55°	42713
60°	40534
65°	38370
70°	36080
75°	34186
80°	31822
85°	29625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	6.1
10°-20°	813.5	17.1
20°-30°	1143.0	24.0
30°-40°	1017.4	21.4
40°-50°	568.6	12.0
50°-60°	405.0	8.5
60°-70°	294.8	6.2
70°-80°	170.6	3.6
80°-90°	53.0	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°	2248.1	47.3
0°-40°	3265.5	68.6
0°-60°	4239.2	89.1
0°-90°	4757.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4757.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3102	
5°	3082	292
15°	2897	814
25°	2504	1143
35°	1664	1017
45°	706	569
55°	447	405
65°	296	295
75°	161	171
85°	47	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3101.8
2.5°	3088.5
5°	3081.7
7.5°	3054.9
10°	3001.0
12.5°	2950.6
15°	2896.9
17.5°	2823.0
20°	2725.5
22.5°	2618.0
25°	2503.7
27.5°	2362.6
30°	2184.4
32.5°	1955.9
35°	1663.5
37.5°	1334.2
40°	1048.5
42.5°	836.9
45°	705.8
47.5°	618.4
50°	554.5
52.5°	497.3
55°	446.9
57.5°	406.6
60°	369.7
62.5°	336.1
65°	295.8
67.5°	262.2
70°	225.1
72.5°	191.5
75°	161.4
77.5°	131.1
80°	100.8
82.5°	73.9
85°	47.1
87.5°	23.5
90°	0.0



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— 0°-180°







(END OF REPORT)