

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: P593387

Luminaire Tested: **HC655D010-HM64560850-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593387
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-HM64560850-61PSMDW
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: 5627.5 lumens
Efficiency: N/A
Efficacy: 108.2 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

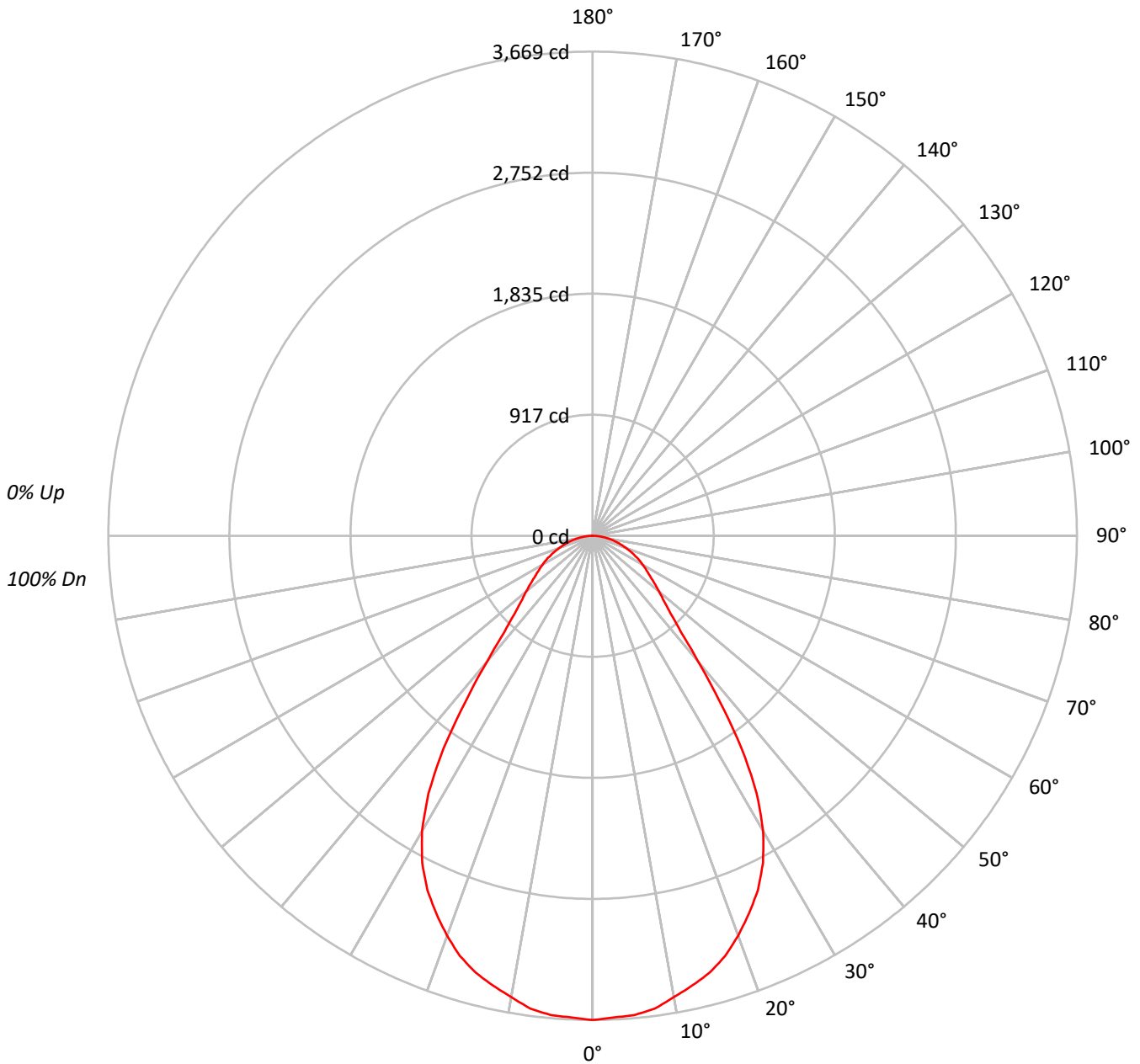
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	201146
5°	200599
10°	197608
15°	194479
20°	188077
25°	179133
30°	163563
35°	131691
40°	88759
45°	64720
50°	55947
55°	50531
60°	47935
65°	45375
70°	42683
75°	40413
80°	37631
85°	34972



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.0	6.1
10°-20°	962.3	17.1
20°-30°	1352.0	24.0
30°-40°	1203.5	21.4
40°-50°	672.5	12.0
50°-60°	479.1	8.5
60°-70°	348.6	6.2
70°-80°	201.8	3.6
80°-90°	62.7	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°	2659.3	47.3
0°-40°	3862.7	68.6
0°-60°	5014.4	89.1
0°-90°	5627.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5627.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3669	
5°	3645	345
15°	3427	962
25°	2962	1352
35°	1968	1203
45°	835	673
55°	529	479
65°	350	349
75°	191	202
85°	56	63
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3669.2
2.5°	3653.2
5°	3645.3
7.5°	3613.5
10°	3549.9
12.5°	3490.3
15°	3426.7
17.5°	3339.3
20°	3223.9
22.5°	3096.7
25°	2961.5
27.5°	2794.6
30°	2583.9
32.5°	2313.6
35°	1967.8
37.5°	1578.1
40°	1240.3
42.5°	989.8
45°	834.8
47.5°	731.4
50°	656.0
52.5°	588.3
55°	528.7
57.5°	481.0
60°	437.2
62.5°	397.5
65°	349.8
67.5°	310.1
70°	266.3
72.5°	226.5
75°	190.8
77.5°	155.1
80°	119.2
82.5°	87.4
85°	55.6
87.5°	27.8
90°	0.0



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— 0°-180°







(END OF REPORT)