

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: P582997

Luminaire Tested: **HC655D010-HM64560827-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582997
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-HM64560827-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4789.1 lumens
Efficiency: N/A
Efficacy: 92.1 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

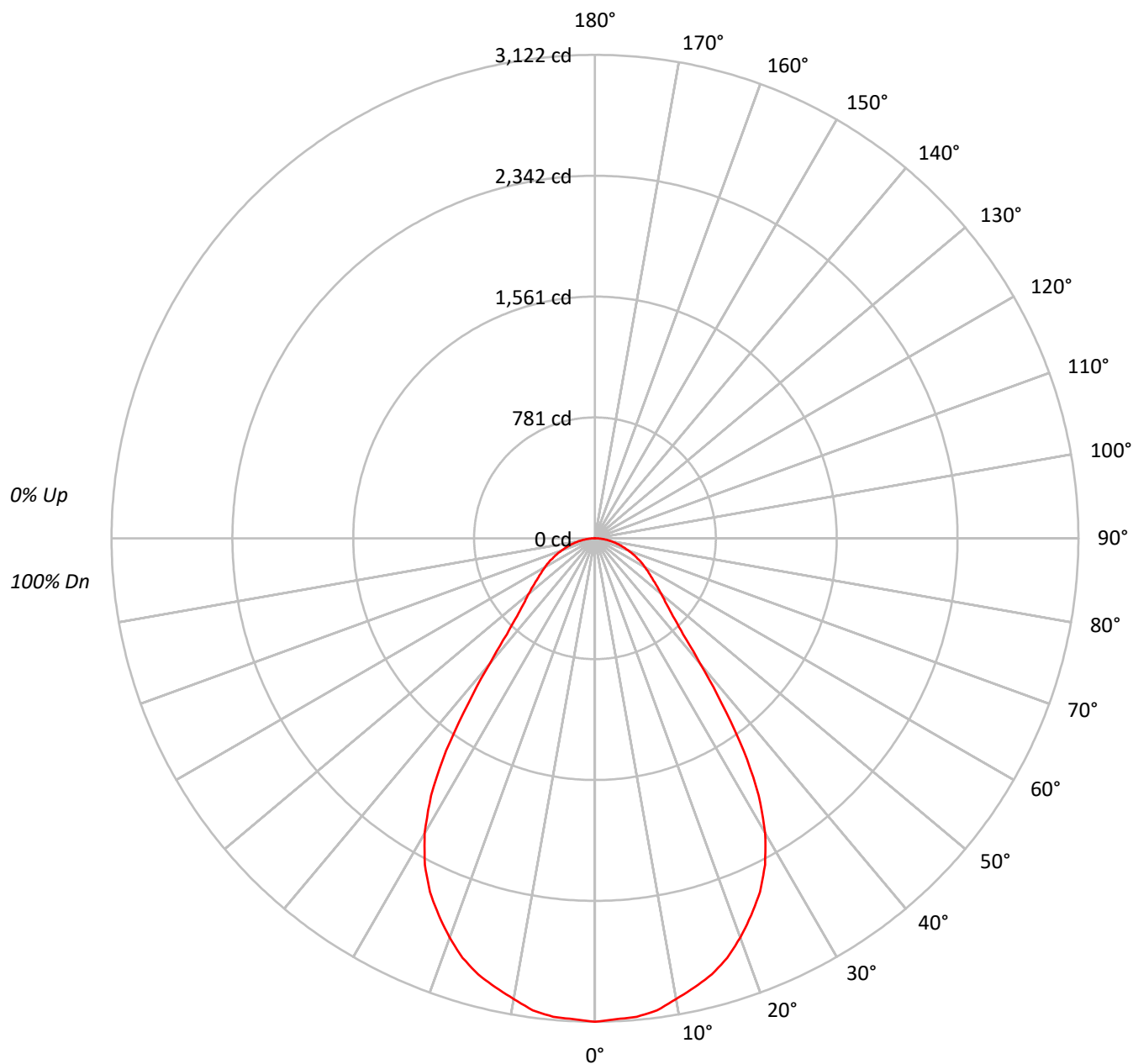
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	171176
5°	170713
10°	168167
15°	165500
20°	160057
25°	152446
30°	139199
35°	112063
40°	75534
45°	55075
50°	47598
55°	43000
60°	40808
65°	38603
70°	36336
75°	34398
80°	32043
85°	29751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.6	6.1
10°-20°	818.9	17.1
20°-30°	1150.6	24.0
30°-40°	1024.2	21.4
40°-50°	572.3	12.0
50°-60°	407.7	8.5
60°-70°	296.7	6.2
70°-80°	171.7	3.6
80°-90°	53.4	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°	2263.1	47.3
0°-40°	3287.2	68.6
0°-60°	4267.3	89.1
0°-90°	4789.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4789.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3122	
5°	3102	294
15°	2916	819
25°	2520	1151
35°	1674	1024
45°	710	572
55°	450	408
65°	298	297
75°	162	172
85°	47	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3122.5
2.5°	3108.9
5°	3102.2
7.5°	3075.1
10°	3021.0
12.5°	2970.3
15°	2916.1
17.5°	2841.7
20°	2743.6
22.5°	2635.4
25°	2520.3
27.5°	2378.2
30°	2199.0
32.5°	1968.9
35°	1674.5
37.5°	1343.1
40°	1055.5
42.5°	842.4
45°	710.4
47.5°	622.5
50°	558.1
52.5°	500.6
55°	449.9
57.5°	409.3
60°	372.2
62.5°	338.3
65°	297.6
67.5°	263.9
70°	226.7
72.5°	192.8
75°	162.4
77.5°	131.9
80°	101.5
82.5°	74.4
85°	47.3
87.5°	23.7
90°	0.0



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— 0°-180°







(END OF REPORT)