

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: P583105

Luminaire Tested: **HC655D010-HM64560935-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583105
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-HM64560935-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4813.5 lumens
Efficiency: N/A
Efficacy: 92.6 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

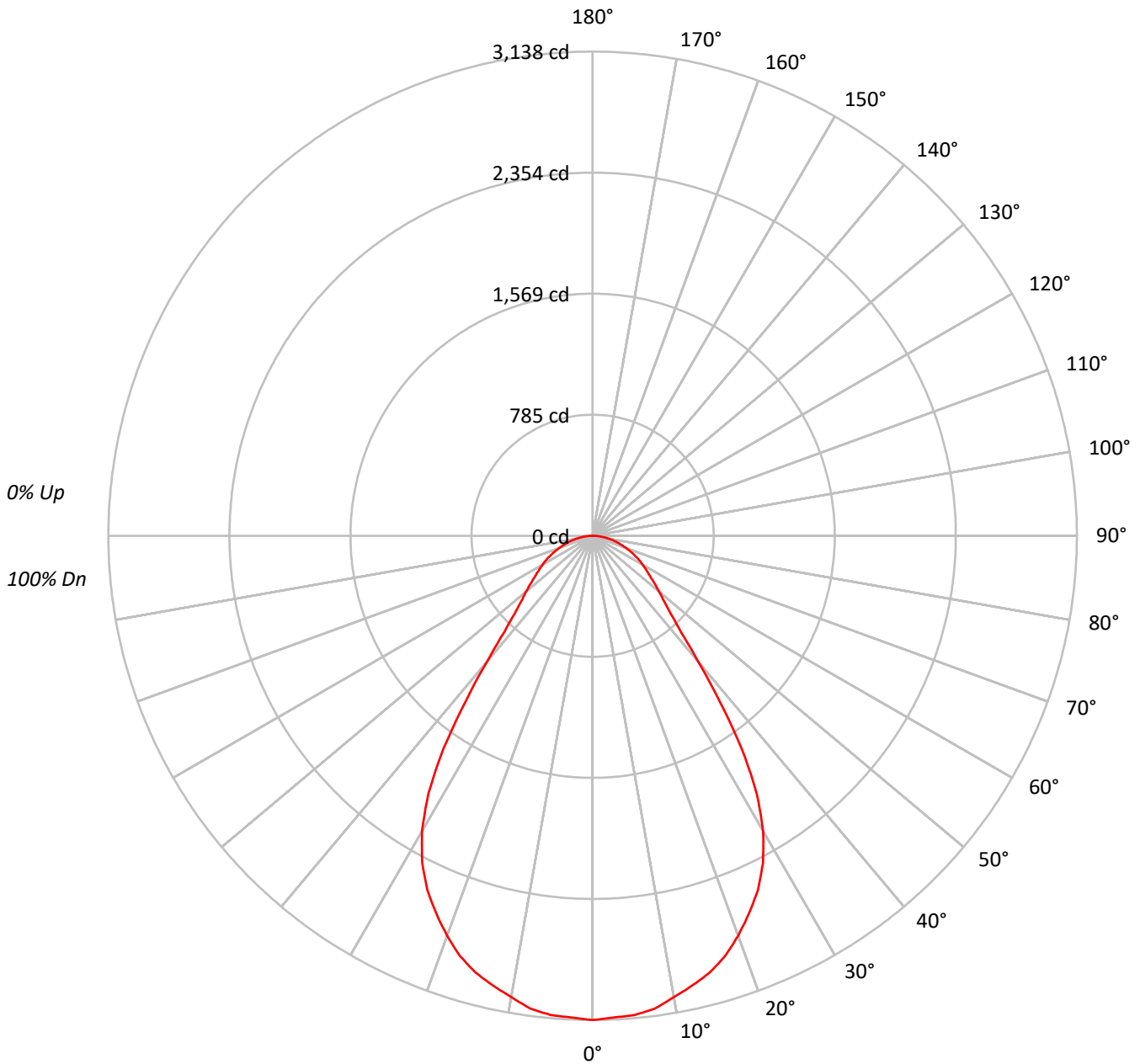
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	172048
5°	171577
10°	169018
15°	166340
20°	160868
25°	153227
30°	139901
35°	112638
40°	75914
45°	55362
50°	47845
55°	43229
60°	41016
65°	38811
70°	36513
75°	34588
80°	32201
85°	29940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.1	6.1
10°-20°	823.1	17.1
20°-30°	1156.4	24.0
30°-40°	1029.4	21.4
40°-50°	575.3	12.0
50°-60°	409.9	8.5
60°-70°	298.2	6.2
70°-80°	172.6	3.6
80°-90°	53.7	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°	2274.5	47.3
0°-40°	3303.9	68.6
0°-60°	4289.0	89.1
0°-90°	4813.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4813.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3138	
5°	3118	295
15°	2931	823
25°	2533	1156
35°	1683	1029
45°	714	575
55°	452	410
65°	299	298
75°	163	173
85°	48	54
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3138.4
2.5°	3124.8
5°	3117.9
7.5°	3090.7
10°	3036.3
12.5°	2985.3
15°	2930.9
17.5°	2856.1
20°	2757.5
22.5°	2648.7
25°	2533.2
27.5°	2390.3
30°	2210.1
32.5°	1978.9
35°	1683.1
37.5°	1349.8
40°	1060.8
42.5°	846.7
45°	714.1
47.5°	625.6
50°	561.0
52.5°	503.2
55°	452.3
57.5°	411.4
60°	374.1
62.5°	340.0
65°	299.2
67.5°	265.2
70°	227.8
72.5°	193.8
75°	163.3
77.5°	132.6
80°	102.0
82.5°	74.8
85°	47.6
87.5°	23.8
90°	0.0



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— 0°-180°







(END OF REPORT)