

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: P593318

Luminaire Tested: **HC645D010-HM64560850-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560850-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5234.6 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

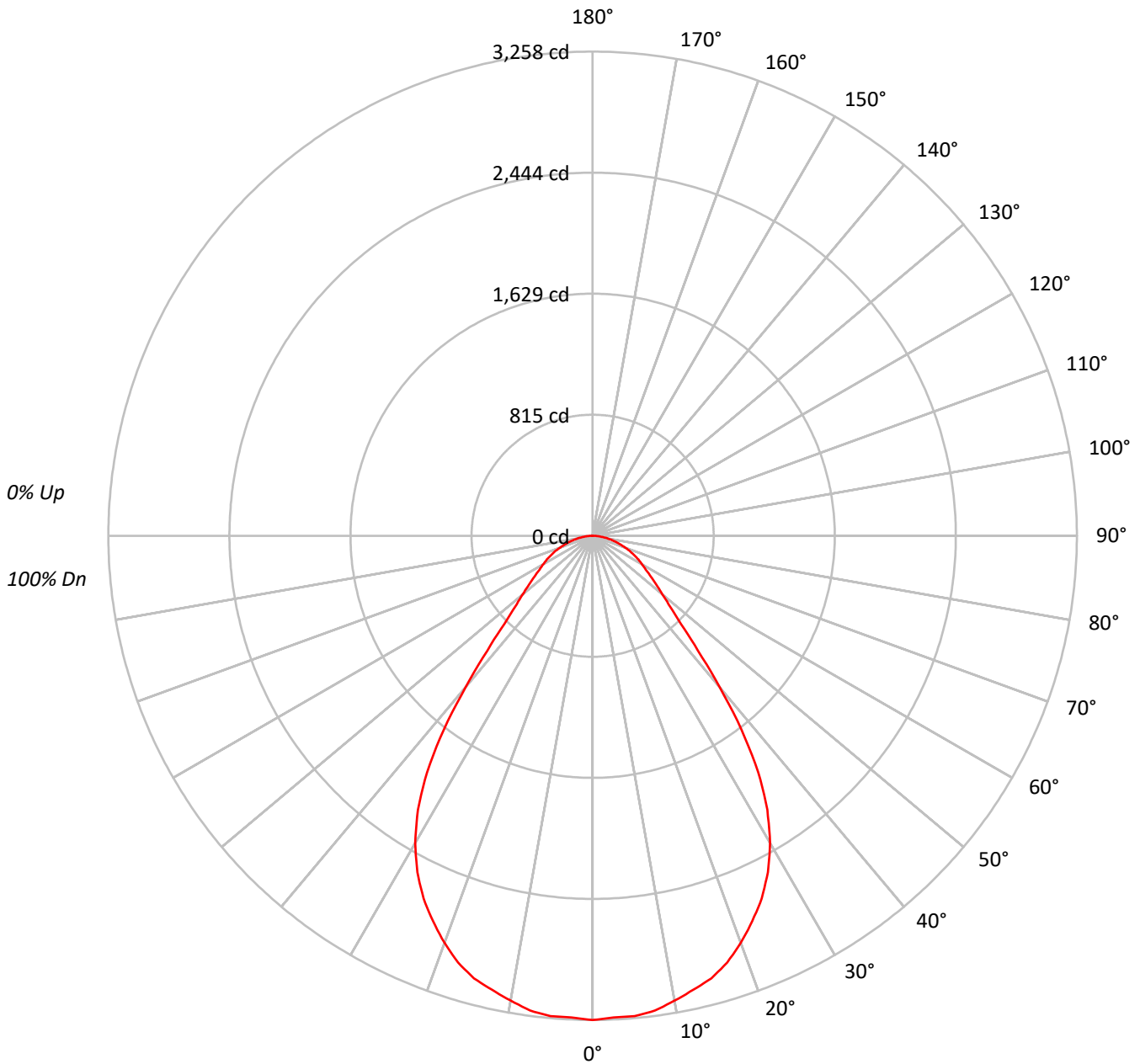
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	178632
5°	178527
10°	176795
15°	174967
20°	170016
25°	162844
30°	151125
35°	130032
40°	94914
45°	65030
50°	52280
55°	45561
60°	42058
65°	39991
70°	37346
75°	34927
80°	31696
85°	27047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.5	5.9
10°-20°	865.8	16.5
20°-30°	1231.4	23.5
30°-40°	1185.5	22.6
40°-50°	682.1	13.0
50°-60°	432.2	8.3
60°-70°	306.0	5.8
70°-80°	174.4	3.3
80°-90°	49.7	0.9
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°	2404.7	45.9
0°-40°	3590.2	68.6
0°-60°	4704.5	89.9
0°-90°	5234.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5234.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3258	
5°	3244	308
15°	3083	866
25°	2692	1231
35°	1943	1186
45°	839	682
55°	477	432
65°	308	306
75°	165	174
85°	43	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3258.5
2.5°	3244.2
5°	3244.2
7.5°	3222.6
10°	3176.0
12.5°	3129.4
15°	3082.9
17.5°	3011.1
20°	2914.3
22.5°	2806.8
25°	2692.2
27.5°	2552.3
30°	2387.4
32.5°	2186.7
35°	1943.0
37.5°	1645.4
40°	1326.3
42.5°	1046.8
45°	838.8
47.5°	706.1
50°	613.0
52.5°	537.7
55°	476.7
57.5°	423.0
60°	383.6
62.5°	347.7
65°	308.3
67.5°	272.5
70°	233.0
72.5°	197.2
75°	164.9
77.5°	132.7
80°	100.4
82.5°	71.7
85°	43.0
87.5°	17.9
90°	0.0



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— 0°-180°







(END OF REPORT)