

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: P582571

Luminaire Tested: **HC645D010-HM64560827-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582571
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-HM64560827-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4454.6 lumens
Efficiency: N/A
Efficacy: 101.2 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

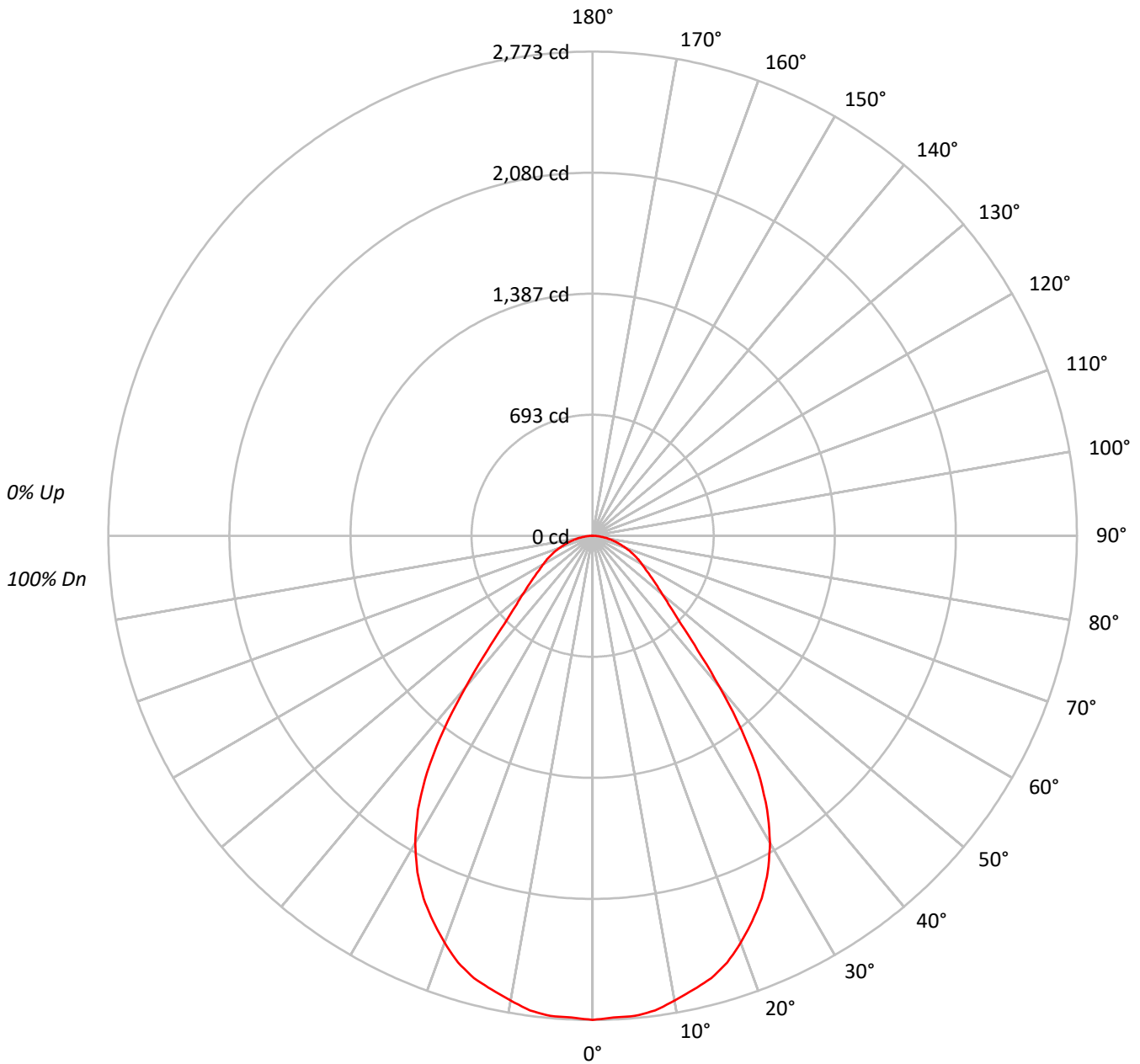
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	62	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°	152016
5°	151926
10°	150454
15°	148894
20°	144685
25°	138577
30°	128602
35°	110657
40°	80773
45°	55347
50°	44485
55°	38775
60°	35787
65°	34037
70°	31768
75°	29717
80°	26961
85°	23021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.7	5.9
10°-20°	736.8	16.5
20°-30°	1047.9	23.5
30°-40°	1008.9	22.6
40°-50°	580.5	13.0
50°-60°	367.8	8.3
60°-70°	260.4	5.8
70°-80°	148.4	3.3
80°-90°	42.3	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°	2046.4	45.9
0°-40°	3055.3	68.6
0°-60°	4003.5	89.9
0°-90°	4454.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4454.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2773	
5°	2761	262
15°	2624	737
25°	2291	1048
35°	1654	1009
45°	714	580
55°	406	368
65°	262	260
75°	140	148
85°	37	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2773.0
2.5°	2760.8
5°	2760.8
7.5°	2742.5
10°	2702.8
12.5°	2663.2
15°	2623.5
17.5°	2562.5
20°	2480.1
22.5°	2388.6
25°	2291.0
27.5°	2172.0
30°	2031.6
32.5°	1860.8
35°	1653.5
37.5°	1400.2
40°	1128.7
42.5°	890.8
45°	713.9
47.5°	600.9
50°	521.6
52.5°	457.6
55°	405.7
57.5°	360.0
60°	326.4
62.5°	295.9
65°	262.4
67.5°	231.9
70°	198.2
72.5°	167.7
75°	140.3
77.5°	112.8
80°	85.4
82.5°	61.0
85°	36.6
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)