

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: P582679

Luminaire Tested: **HC645D010-HM64560935-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582679
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-HM64560935-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4477.3 lumens
Efficiency: N/A
Efficacy: 101.8 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

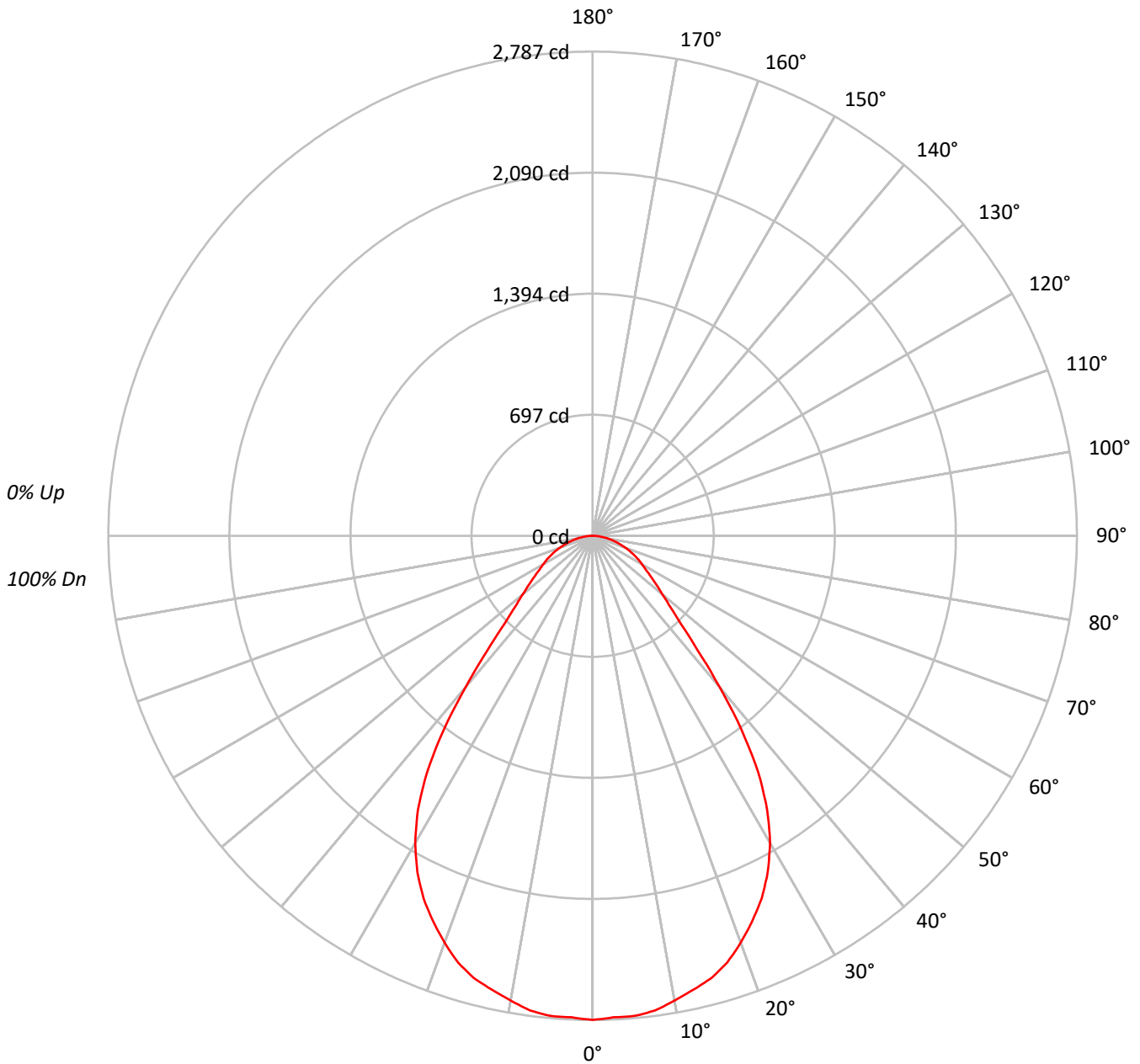
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	152784
5°	152691
10°	151222
15°	149649
20°	145420
25°	139278
30°	129260
35°	111213
40°	81181
45°	55618
50°	44715
55°	38966
60°	35973
65°	34206
70°	31944
75°	29865
80°	27118
85°	23147



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.0	5.9
10°-20°	740.5	16.5
20°-30°	1053.2	23.5
30°-40°	1014.0	22.6
40°-50°	583.4	13.0
50°-60°	369.6	8.3
60°-70°	261.7	5.8
70°-80°	149.2	3.3
80°-90°	42.6	1.0
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°	2056.8	45.9
0°-40°	3070.8	68.6
0°-60°	4023.8	89.9
0°-90°	4477.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4477.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2787	
5°	2775	263
15°	2637	741
25°	2303	1053
35°	1662	1014
45°	717	583
55°	408	370
65°	264	262
75°	141	149
85°	37	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2787.0
2.5°	2774.7
5°	2774.7
7.5°	2756.4
10°	2716.6
12.5°	2676.7
15°	2636.8
17.5°	2575.4
20°	2492.7
22.5°	2400.8
25°	2302.6
27.5°	2183.1
30°	2042.0
32.5°	1870.3
35°	1661.8
37.5°	1407.4
40°	1134.4
42.5°	895.2
45°	717.4
47.5°	604.0
50°	524.3
52.5°	459.9
55°	407.7
57.5°	361.8
60°	328.1
62.5°	297.4
65°	263.7
67.5°	233.1
70°	199.3
72.5°	168.7
75°	141.0
77.5°	113.4
80°	85.9
82.5°	61.3
85°	36.8
87.5°	15.4
90°	0.0



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— 0°-180°







(END OF REPORT)