

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: P582597

Luminaire Tested: **HC645D010-HM64560835-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC645D010-HM64560835-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4754.6 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

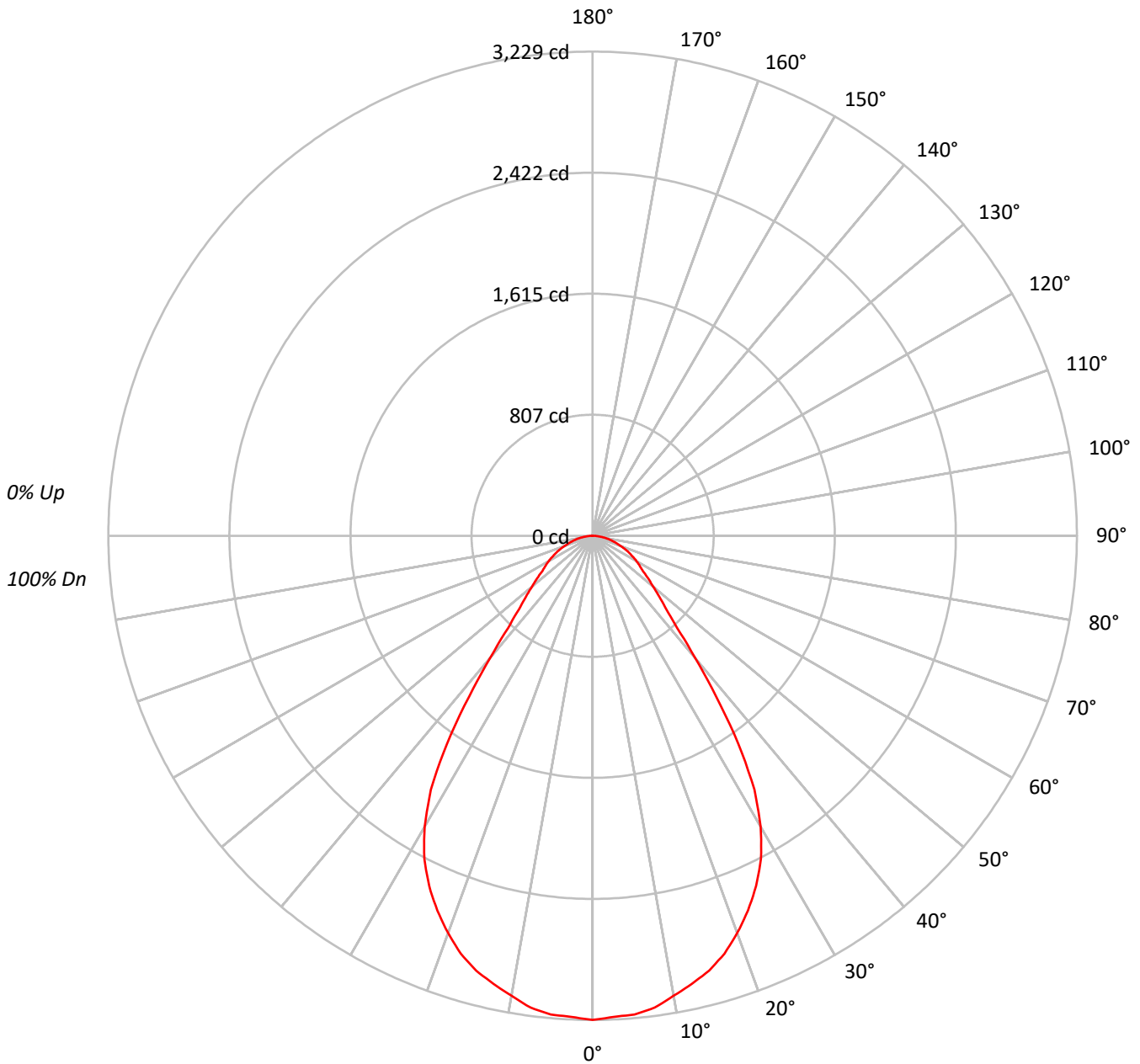
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	176998
5°	176342
10°	173399
15°	170347
20°	164462
25°	155942
30°	141845
35°	113334
40°	75627
45°	53897
50°	44920
55°	39148
60°	36993
65°	34829
70°	31993
75°	29886
80°	27181
85°	23839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.1	6.4
10°-20°	842.8	17.7
20°-30°	1177.7	24.8
30°-40°	1037.4	21.8
40°-50°	560.4	11.8
50°-60°	374.7	7.9
60°-70°	265.6	5.6
70°-80°	149.3	3.1
80°-90°	43.5	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°	2323.5	48.9
0°-40°	3360.9	70.7
0°-60°	4296.1	90.4
0°-90°	4754.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4754.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3229	
5°	3204	303
15°	3002	843
25°	2578	1178
35°	1694	1037
45°	695	560
55°	410	375
65°	268	266
75°	141	149
85°	38	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3228.7
2.5°	3211.4
5°	3204.5
7.5°	3173.6
10°	3115.0
12.5°	3060.0
15°	3001.5
17.5°	2922.3
20°	2819.1
22.5°	2705.4
25°	2578.1
27.5°	2430.1
30°	2240.8
32.5°	2006.8
35°	1693.5
37.5°	1352.7
40°	1056.8
42.5°	832.9
45°	695.2
47.5°	602.3
50°	526.7
52.5°	464.6
55°	409.6
57.5°	371.7
60°	337.4
62.5°	302.9
65°	268.5
67.5°	234.0
70°	199.6
72.5°	168.7
75°	141.1
77.5°	113.5
80°	86.1
82.5°	61.9
85°	37.9
87.5°	17.2
90°	0.0



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— 0°-180°







(END OF REPORT)