

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: P582594

Luminaire Tested: **HC6R45D010-HM64560830-62RMDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC6R45D010-HM64560830-62RMDC
Description: HALO COMMERCIAL 6" ROUND, RETROFIT FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5192.8 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 0.96
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

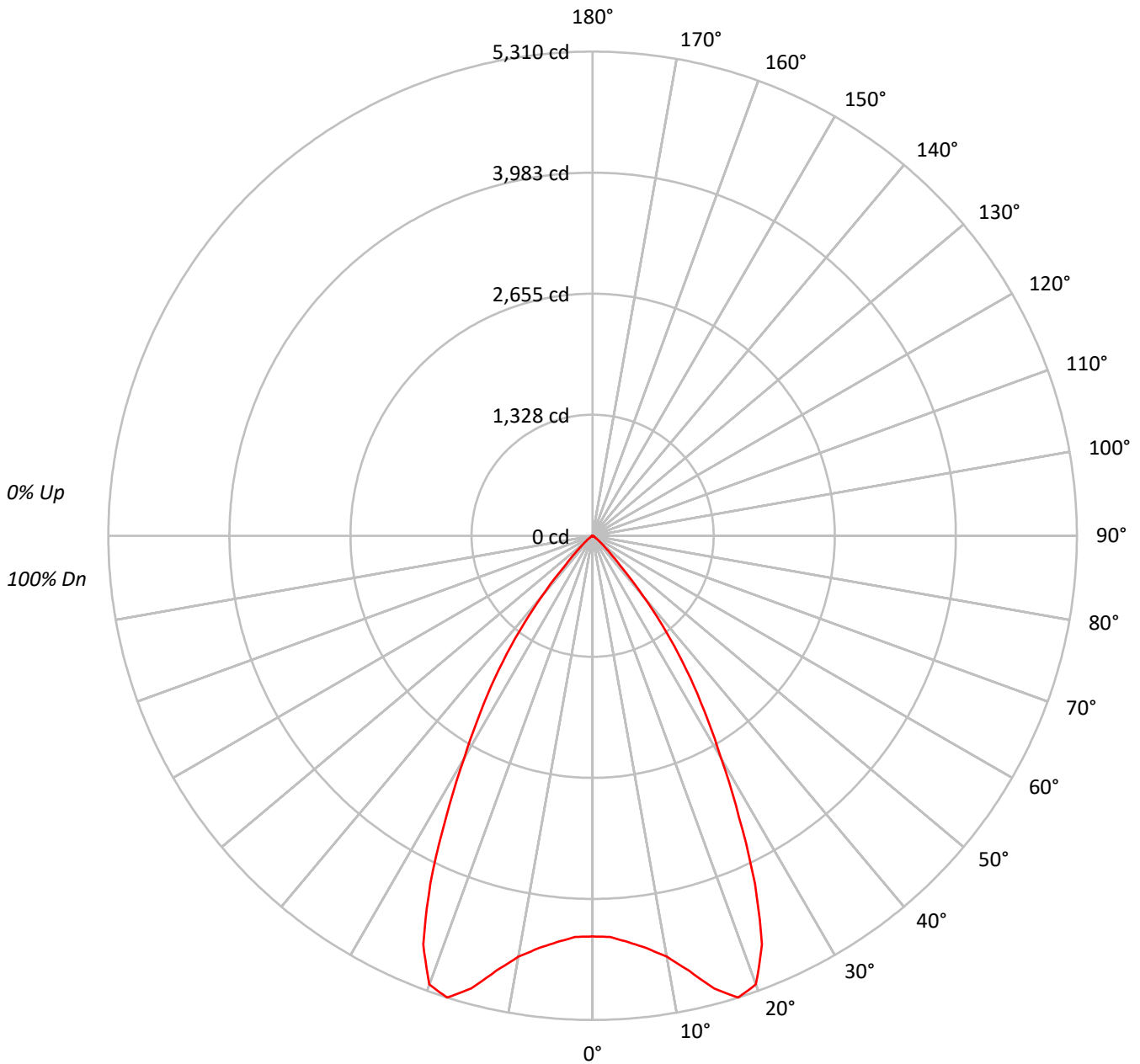
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	91	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61			
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53			
10	72	62	56	52	71	61	56	52	60	55	52	60	55	52	59	55	51	50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	240863
5°	246142
10°	260911
15°	291642
20°	305361
25°	254603
30°	178179
35°	119993
40°	61802
45°	21460
50°	9552
55°	3154
60°	1436
65°	1284
70°	1058
75°	699
80°	1042
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.5	8.3
10°-20°	1447.9	27.9
20°-30°	1881.7	36.2
30°-40°	1111.5	21.4
40°-50°	265.1	5.1
50°-60°	39.1	0.8
60°-70°	9.7	0.2
70°-80°	3.9	0.1
80°-90°	0.4	0.0
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°	3763.1	72.5
0°-40°	4874.6	93.9
0°-60°	5178.7	99.7
0°-90°	5192.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5192.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4394	
5°	4473	434
15°	5139	1448
25°	4209	1882
35°	1793	1111
45°	277	265
55°	33	39
65°	10	10
75°	3	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4393.7
2.5°	4403.7
5°	4472.9
7.5°	4561.9
10°	4687.1
12.5°	4884.8
15°	5138.7
17.5°	5310.1
20°	5234.3
22.5°	4851.9
25°	4209.2
27.5°	3474.2
30°	2814.8
32.5°	2277.6
35°	1793.0
37.5°	1318.5
40°	863.6
42.5°	471.3
45°	276.8
47.5°	171.4
50°	112.0
52.5°	65.9
55°	33.0
57.5°	16.5
60°	13.1
62.5°	13.1
65°	9.9
67.5°	6.6
70°	6.6
72.5°	3.3
75°	3.3
77.5°	3.3
80°	3.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)