

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: P592916

Luminaire Tested: **HC455D010-HM44560850-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560850-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6376.4 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

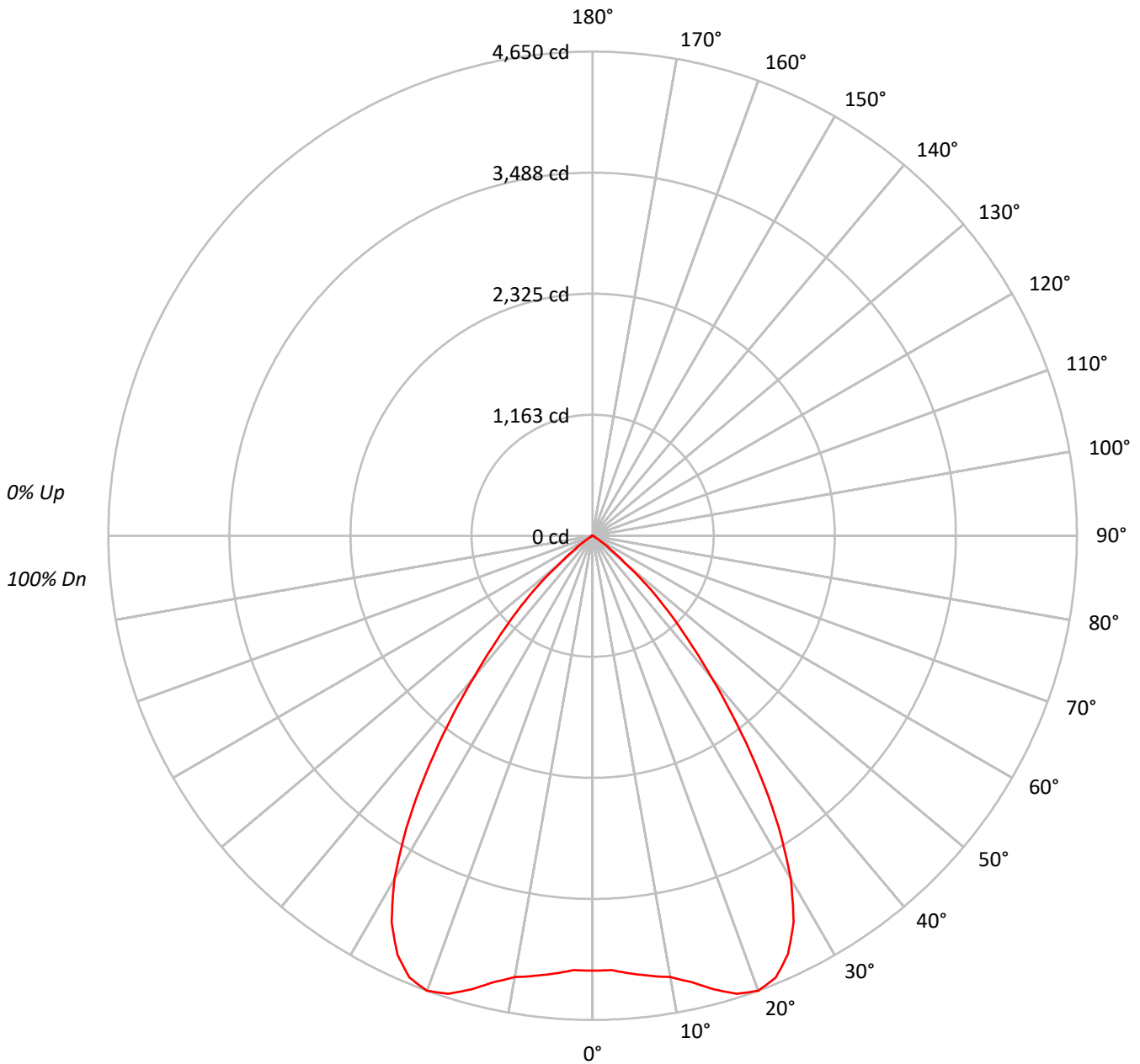
Input Watts (W): 52
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92		
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85		
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77		
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71		
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65		
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60		
7	79	69	62	57	78	68	62	57	67	61	57	66	60	57	64	60	56	55		
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51		
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47		
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	515116
5°	522668
10°	539069
15°	576015
20°	610341
25°	603658
30°	541808
35°	421691
40°	285675
45°	178344
50°	77179
55°	25870
60°	6488
65°	4407
70°	2705
75°	1763
80°	2628
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.5	6.4
10°-20°	1280.5	20.1
20°-30°	2006.3	31.5
30°-40°	1731.5	27.2
40°-50°	796.3	12.5
50°-60°	135.2	2.1
60°-70°	15.3	0.2
70°-80°	5.4	0.1
80°-90°	0.5	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°	3692.2	57.9
0°-40°	5423.8	85.1
0°-60°	6355.2	99.7
0°-90°	6376.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6376.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4176	
5°	4221	405
15°	4511	1280
25°	4436	2006
35°	2800	1732
45°	1022	796
55°	120	135
65°	15	15
75°	4	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4176.2
2.5°	4176.2
5°	4221.3
7.5°	4262.6
10°	4304.0
12.5°	4390.4
15°	4510.8
17.5°	4612.3
20°	4649.8
22.5°	4593.5
25°	4435.5
27.5°	4179.9
30°	3804.1
32.5°	3330.4
35°	2800.5
37.5°	2266.6
40°	1774.2
42.5°	1357.0
45°	1022.4
47.5°	718.0
50°	402.2
52.5°	221.7
55°	120.3
57.5°	60.2
60°	26.3
62.5°	18.8
65°	15.1
67.5°	11.2
70°	7.5
72.5°	7.5
75°	3.7
77.5°	3.7
80°	3.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)