

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: P581165

Luminaire Tested: **HC455D010-HM44560835-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560835-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4535.4 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

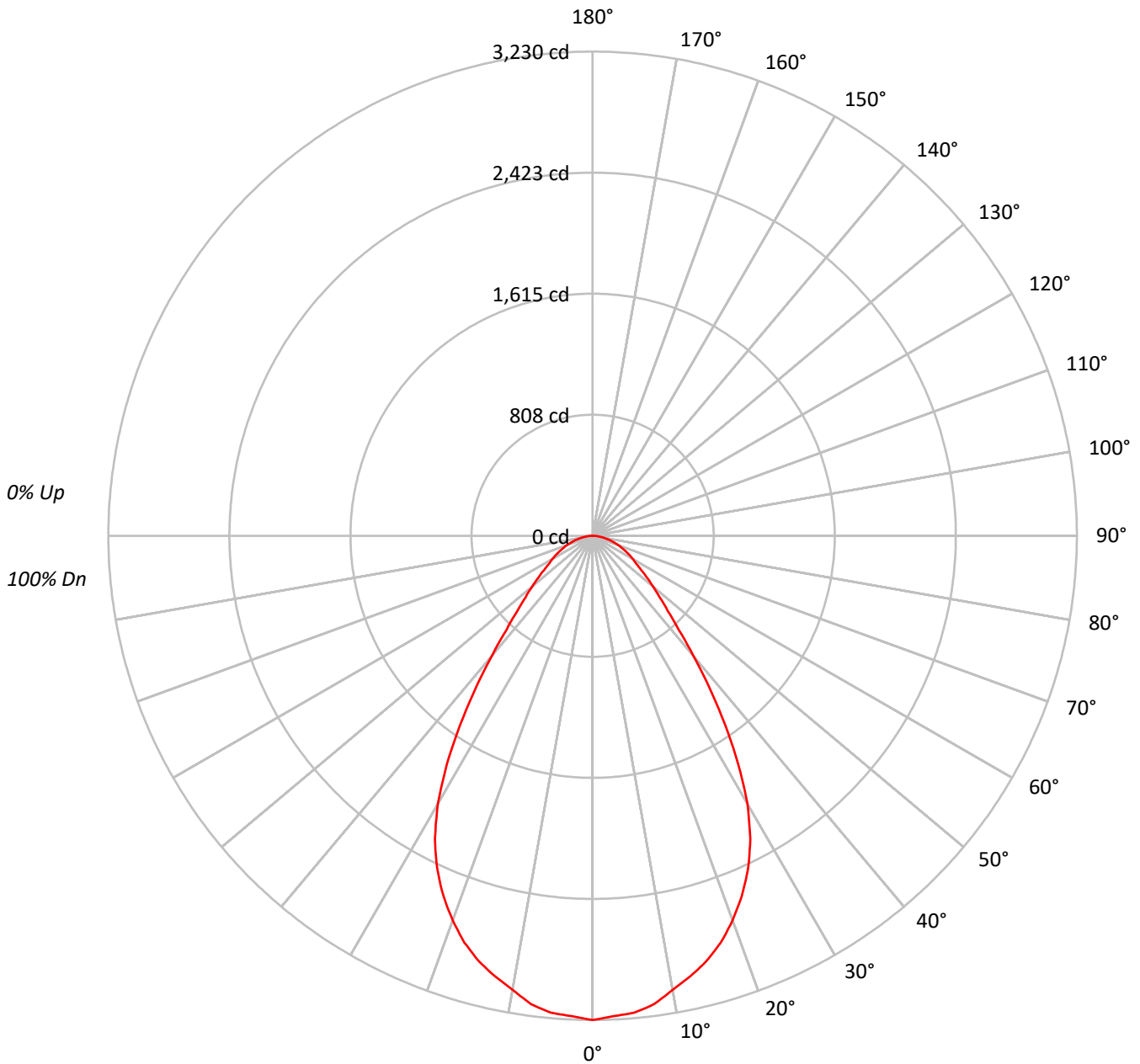
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79		
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58		
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52		
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48		
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	398456
5°	395496
10°	385202
15°	375045
20°	358266
25°	333778
30°	293899
35°	231799
40°	168246
45°	123641
50°	100570
55°	84363
60°	76425
65°	70222
70°	65420
75°	59667
80°	53842
85°	46703



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.2	6.6
10°-20°	823.8	18.2
20°-30°	1116.7	24.6
30°-40°	958.2	21.1
40°-50°	565.8	12.5
50°-60°	358.6	7.9
60°-70°	240.9	5.3
70°-80°	133.0	2.9
80°-90°	37.2	0.8
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°	2241.7	49.4
0°-40°	3200.0	70.6
0°-60°	4124.4	90.9
0°-90°	4535.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4535.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3230	
5°	3194	301
15°	2937	824
25°	2452	1117
35°	1539	958
45°	709	566
55°	392	359
65°	241	241
75°	125	133
85°	33	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3230.4
2.5°	3207.4
5°	3194.2
7.5°	3151.4
10°	3075.5
12.5°	3009.6
15°	2937.0
17.5°	2844.8
20°	2729.4
22.5°	2600.8
25°	2452.5
27.5°	2277.8
30°	2063.5
32.5°	1809.7
35°	1539.4
37.5°	1279.0
40°	1044.9
42.5°	850.5
45°	708.8
47.5°	606.5
50°	524.1
52.5°	455.0
55°	392.3
57.5°	342.8
60°	309.8
62.5°	276.9
65°	240.6
67.5°	210.9
70°	181.4
72.5°	151.6
75°	125.2
77.5°	98.9
80°	75.8
82.5°	52.8
85°	33.0
87.5°	13.2
90°	0.0



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— 0°-180°







(END OF REPORT)