

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: P581218

Luminaire Tested: **HC455D010-HM44560930-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560930-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4013.4 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

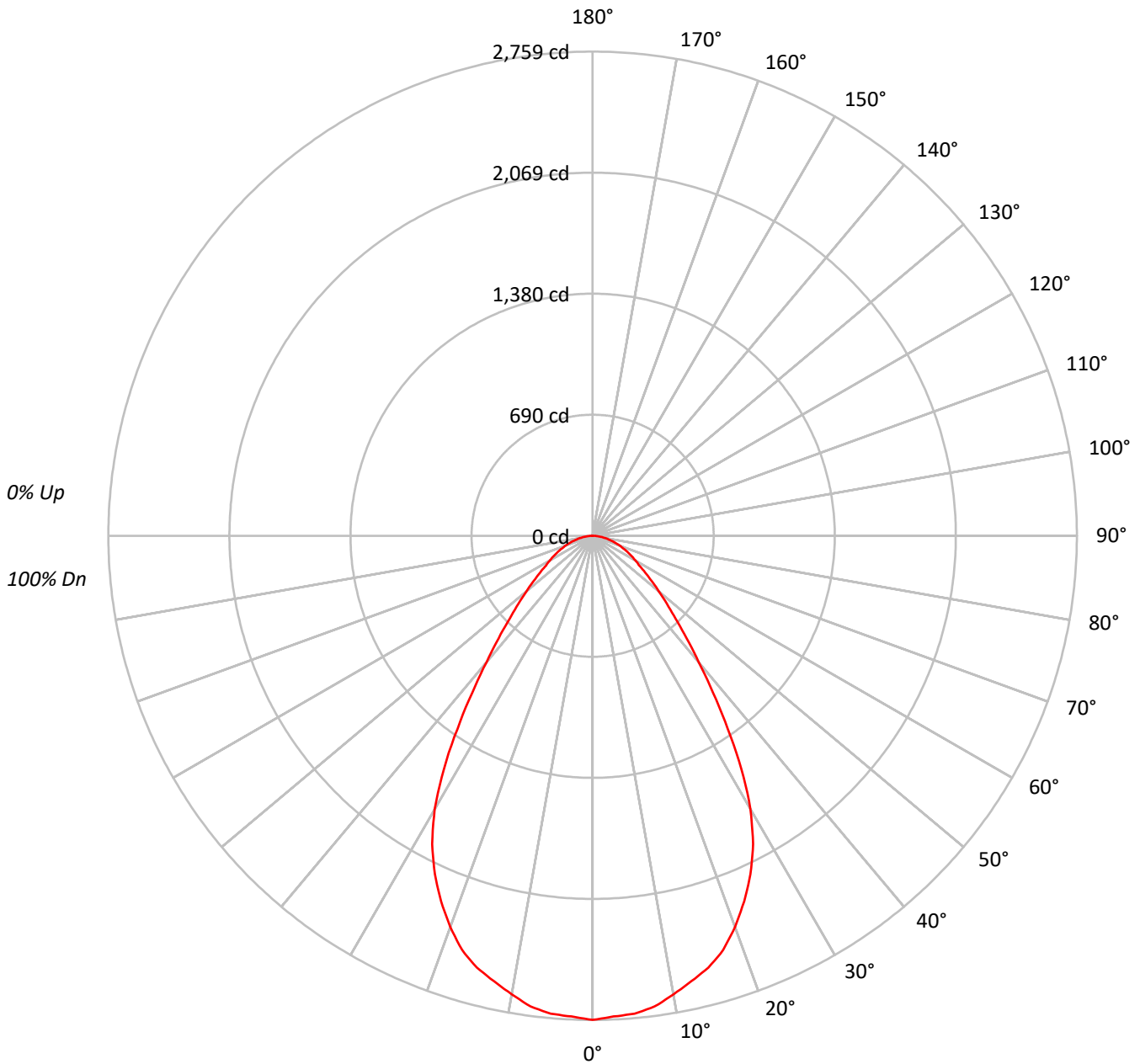
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	97	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	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	340261
5°	338466
10°	332284
15°	325282
20°	311366
25°	289532
30°	256255
35°	202240
40°	151339
45°	116437
50°	94449
55°	78341
60°	69296
65°	64122
70°	59145
75°	54329
80°	49367
85°	39343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	6.4
10°-20°	714.4	17.8
20°-30°	970.0	24.2
30°-40°	840.2	20.9
40°-50°	527.5	13.1
50°-60°	331.9	8.3
60°-70°	218.0	5.4
70°-80°	120.2	3.0
80°-90°	32.9	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°	1942.8	48.4
0°-40°	2783.0	69.3
0°-60°	3642.3	90.8
0°-90°	4013.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4013.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2759	
5°	2734	258
15°	2547	714
25°	2127	970
35°	1343	840
45°	668	528
55°	364	332
65°	220	218
75°	114	120
85°	28	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2758.6
2.5°	2742.0
5°	2733.6
7.5°	2705.8
10°	2653.0
12.5°	2600.1
15°	2547.3
17.5°	2475.0
20°	2372.1
22.5°	2255.3
25°	2127.4
27.5°	1980.0
30°	1799.2
32.5°	1579.5
35°	1343.1
37.5°	1126.2
40°	939.9
42.5°	792.6
45°	667.5
47.5°	572.8
50°	492.2
52.5°	422.7
55°	364.3
57.5°	314.2
60°	280.9
62.5°	250.3
65°	219.7
67.5°	189.1
70°	164.0
72.5°	136.2
75°	114.0
77.5°	89.0
80°	69.5
82.5°	47.2
85°	27.8
87.5°	11.1
90°	0.0



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— 0°-180°







(END OF REPORT)