

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: P581130

Luminaire Tested: **HC455D010-HM44560827-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560827-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4174.8 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

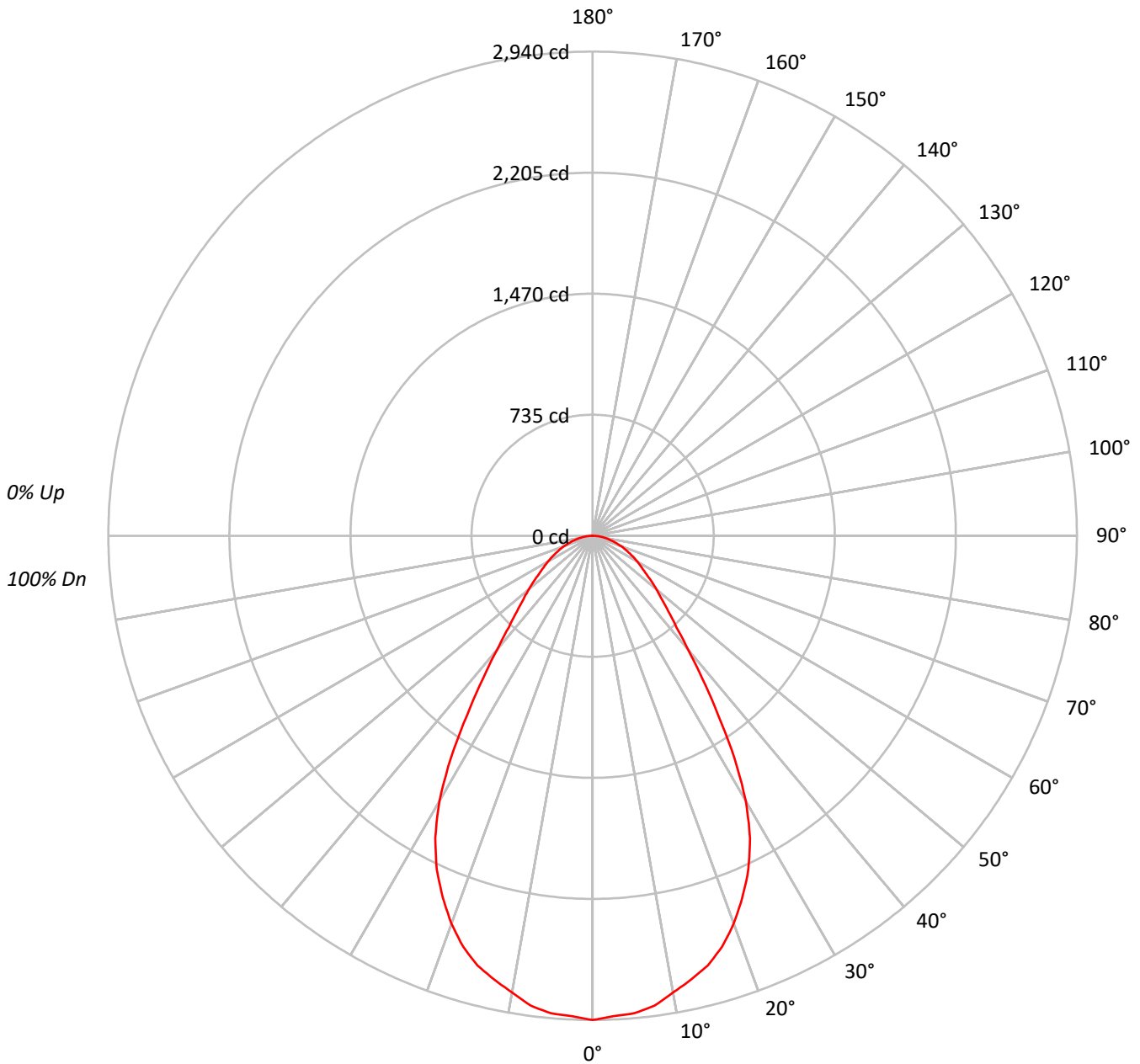
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	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	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°	362636
5°	360356
10°	352700
15°	344896
20°	328942
25°	304503
30°	264858
35°	200012
40°	144963
45°	113279
50°	96867
55°	83782
60°	77190
65°	70630
70°	65997
75°	60477
80°	56541
85°	54345



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	6.6
10°-20°	756.5	18.1
20°-30°	1017.3	24.4
30°-40°	836.5	20.0
40°-50°	513.7	12.3
50°-60°	355.5	8.5
60°-70°	242.3	5.8
70°-80°	135.0	3.2
80°-90°	43.0	1.0
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°	2048.7	49.1
0°-40°	2885.2	69.1
0°-60°	3754.5	89.9
0°-90°	4174.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4174.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2940	
5°	2910	275
15°	2701	757
25°	2237	1017
35°	1328	837
45°	649	514
55°	390	356
65°	242	242
75°	127	135
85°	38	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2940.0
2.5°	2919.3
5°	2910.4
7.5°	2878.0
10°	2816.0
12.5°	2759.8
15°	2700.9
17.5°	2615.3
20°	2506.0
22.5°	2376.1
25°	2237.4
27.5°	2069.2
30°	1859.6
32.5°	1602.8
35°	1328.3
37.5°	1092.1
40°	900.3
42.5°	752.7
45°	649.4
47.5°	569.7
50°	504.8
52.5°	445.7
55°	389.6
57.5°	348.3
60°	312.9
62.5°	277.4
65°	242.0
67.5°	212.5
70°	183.0
72.5°	153.5
75°	126.9
77.5°	100.4
80°	79.6
82.5°	59.1
85°	38.4
87.5°	20.7
90°	0.0



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— 0°-180°







(END OF REPORT)