

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: P580932

Luminaire Tested: **HC450D010-HM44560930-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580932
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: HC450D010-HM44560930-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3749.3 lumens
Efficiency: N/A
Efficacy: 78.1 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

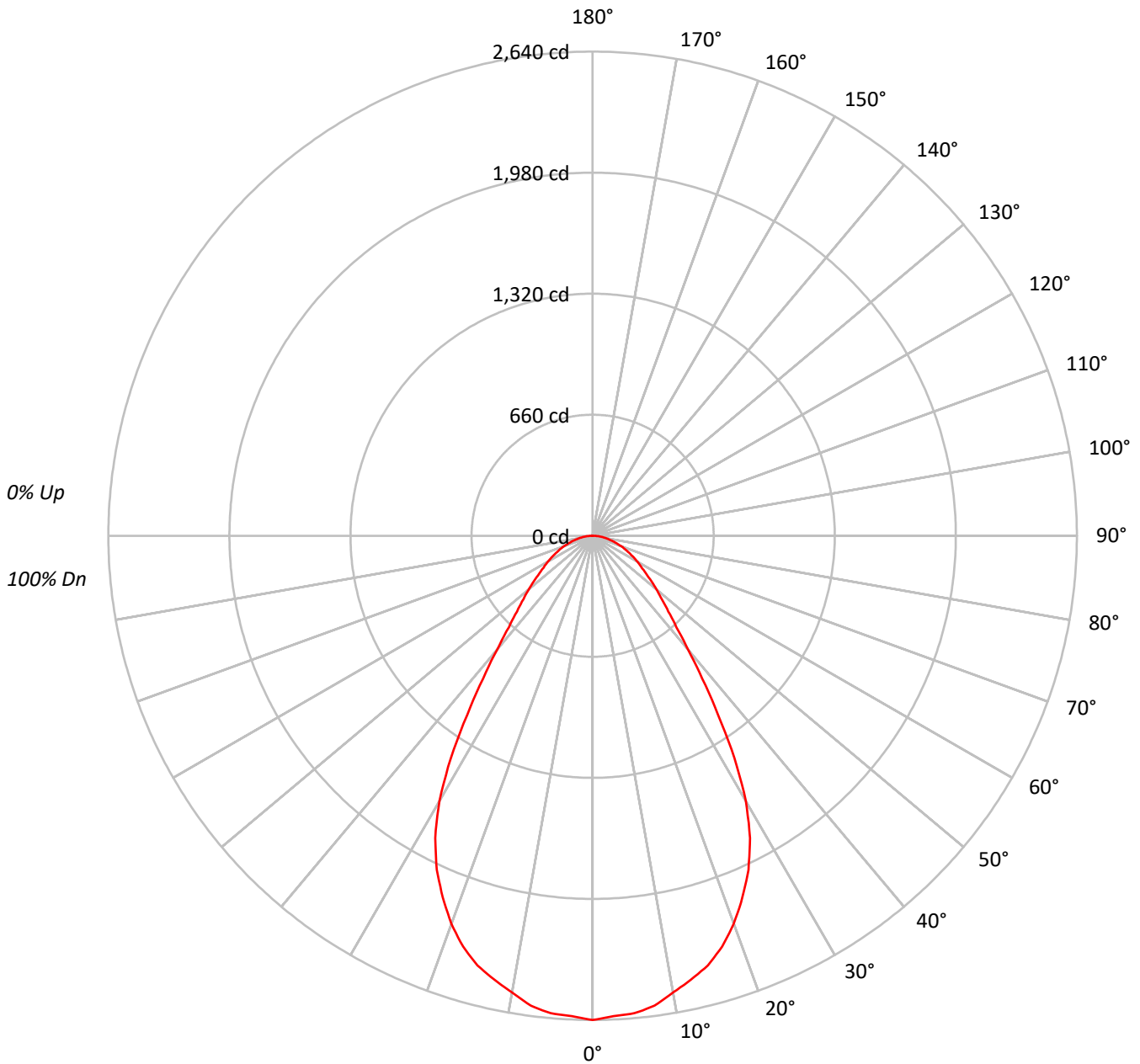
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	325669
5°	323620
10°	316741
15°	309729
20°	295418
25°	273459
30°	237854
35°	179624
40°	130198
45°	101732
50°	86985
55°	75245
60°	69320
65°	63450
70°	59289
75°	54329
80°	50859
85°	48684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.9	6.6
10°-20°	679.4	18.1
20°-30°	913.6	24.4
30°-40°	751.2	20.0
40°-50°	461.4	12.3
50°-60°	319.3	8.5
60°-70°	217.7	5.8
70°-80°	121.3	3.2
80°-90°	38.6	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°	1839.9	49.1
0°-40°	2591.1	69.1
0°-60°	3371.8	89.9
0°-90°	3749.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3749.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2640	
5°	2614	247
15°	2426	679
25°	2009	914
35°	1193	751
45°	583	461
55°	350	319
65°	217	218
75°	114	121
85°	34	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2640.3
2.5°	2621.7
5°	2613.7
7.5°	2584.6
10°	2528.9
12.5°	2478.6
15°	2425.5
17.5°	2348.7
20°	2250.6
22.5°	2134.0
25°	2009.3
27.5°	1858.2
30°	1670.0
32.5°	1439.4
35°	1192.9
37.5°	980.8
40°	808.6
42.5°	675.9
45°	583.2
47.5°	511.7
50°	453.3
52.5°	400.3
55°	349.9
57.5°	312.8
60°	281.0
62.5°	249.2
65°	217.4
67.5°	190.8
70°	164.4
72.5°	137.8
75°	114.0
77.5°	90.1
80°	71.6
82.5°	53.0
85°	34.4
87.5°	18.6
90°	0.0



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— 0°-180°







(END OF REPORT)