

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: P580824

Luminaire Tested: **HC445D010-HM44560940-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580824
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: HC445D010-HM44560940-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3665.4 lumens
Efficiency: N/A
Efficacy: 83.3 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

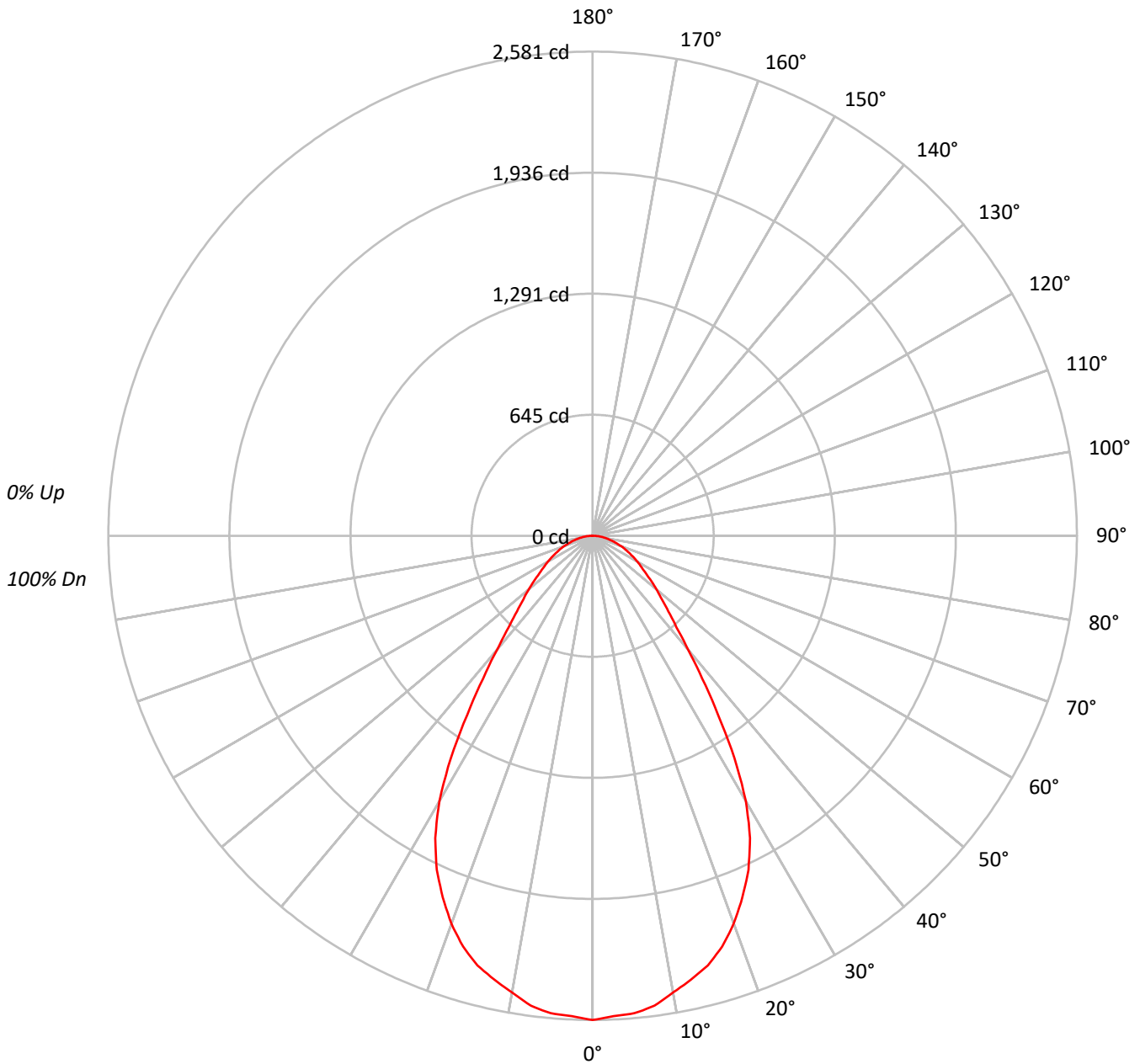
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	318380
5°	316377
10°	309652
15°	302795
20°	288789
25°	267349
30°	232527
35°	175603
40°	127267
45°	99447
50°	85046
55°	73567
60°	67766
65°	62020
70°	57955
75°	53090
80°	49722
85°	47693



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.3	6.6
10°-20°	664.2	18.1
20°-30°	893.1	24.4
30°-40°	734.4	20.0
40°-50°	451.0	12.3
50°-60°	312.1	8.5
60°-70°	212.8	5.8
70°-80°	118.6	3.2
80°-90°	37.7	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°	1798.7	49.1
0°-40°	2533.1	69.1
0°-60°	3296.3	89.9
0°-90°	3665.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3665.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2581	
5°	2555	241
15°	2371	664
25°	1964	893
35°	1166	734
45°	570	451
55°	342	312
65°	212	213
75°	111	119
85°	34	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2581.2
2.5°	2563.0
5°	2555.2
7.5°	2526.7
10°	2472.3
12.5°	2423.1
15°	2371.2
17.5°	2296.1
20°	2200.1
22.5°	2086.1
25°	1964.4
27.5°	1816.6
30°	1632.6
32.5°	1407.2
35°	1166.2
37.5°	958.9
40°	790.4
42.5°	660.9
45°	570.1
47.5°	500.2
50°	443.2
52.5°	391.4
55°	342.1
57.5°	305.7
60°	274.7
62.5°	243.6
65°	212.5
67.5°	186.6
70°	160.7
72.5°	134.8
75°	111.4
77.5°	88.1
80°	70.0
82.5°	51.8
85°	33.7
87.5°	18.2
90°	0.0



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— 0°-180°







(END OF REPORT)