

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: P580732

Luminaire Tested: **HC445D010-HM44560835-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580732
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: HC445D010-HM44560835-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4297.9 lumens
Efficiency: N/A
Efficacy: 97.7 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

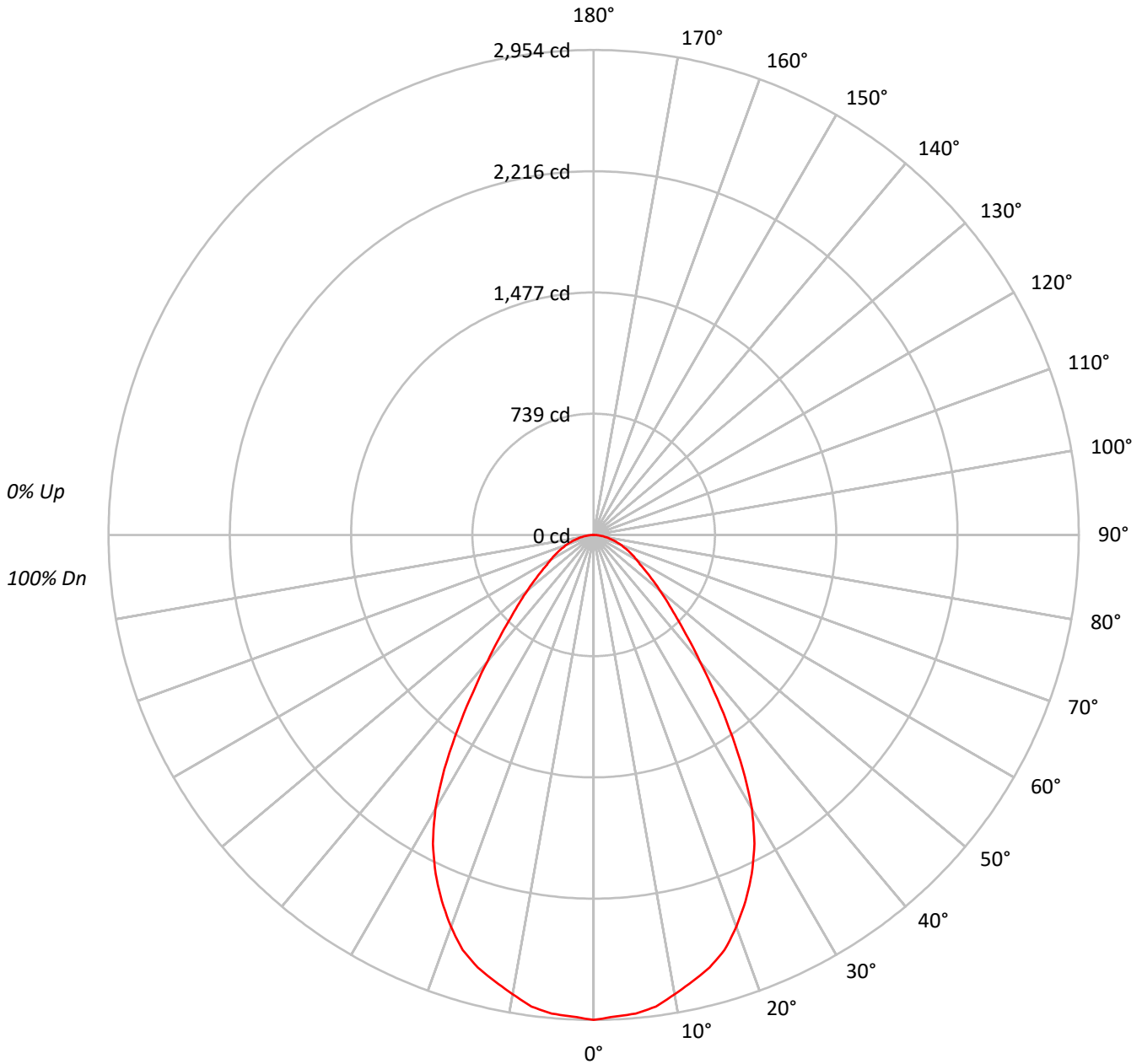
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	364375
5°	362449
10°	355818
15°	348331
20°	333431
25°	310042
30°	274415
35°	216575
40°	162063
45°	124670
50°	101146
55°	83890
60°	74205
65°	68675
70°	63364
75°	58189
80°	52919
85°	42032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	6.4
10°-20°	765.0	17.8
20°-30°	1038.7	24.2
30°-40°	899.7	20.9
40°-50°	564.9	13.1
50°-60°	355.4	8.3
60°-70°	233.5	5.4
70°-80°	128.8	3.0
80°-90°	35.2	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°	2080.4	48.4
0°-40°	2980.2	69.3
0°-60°	3900.4	90.8
0°-90°	4297.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4297.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2954	
5°	2927	277
15°	2728	765
25°	2278	1039
35°	1438	900
45°	715	565
55°	390	355
65°	235	233
75°	122	129
85°	30	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2954.1
2.5°	2936.3
5°	2927.3
7.5°	2897.6
10°	2840.9
12.5°	2784.4
15°	2727.8
17.5°	2650.4
20°	2540.2
22.5°	2415.1
25°	2278.1
27.5°	2120.2
30°	1926.7
32.5°	1691.4
35°	1438.3
37.5°	1206.0
40°	1006.5
42.5°	848.7
45°	714.7
47.5°	613.4
50°	527.1
52.5°	452.6
55°	390.1
57.5°	336.5
60°	300.8
62.5°	268.0
65°	235.3
67.5°	202.5
70°	175.7
72.5°	146.0
75°	122.1
77.5°	95.3
80°	74.5
82.5°	50.6
85°	29.7
87.5°	11.9
90°	0.0



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— 0°-180°







(END OF REPORT)