

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: P580806

Luminaire Tested: **HC445D010-HM44560935-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580806
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-HM44560935-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3694.2 lumens
Efficiency: N/A
Efficacy: 84.0 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

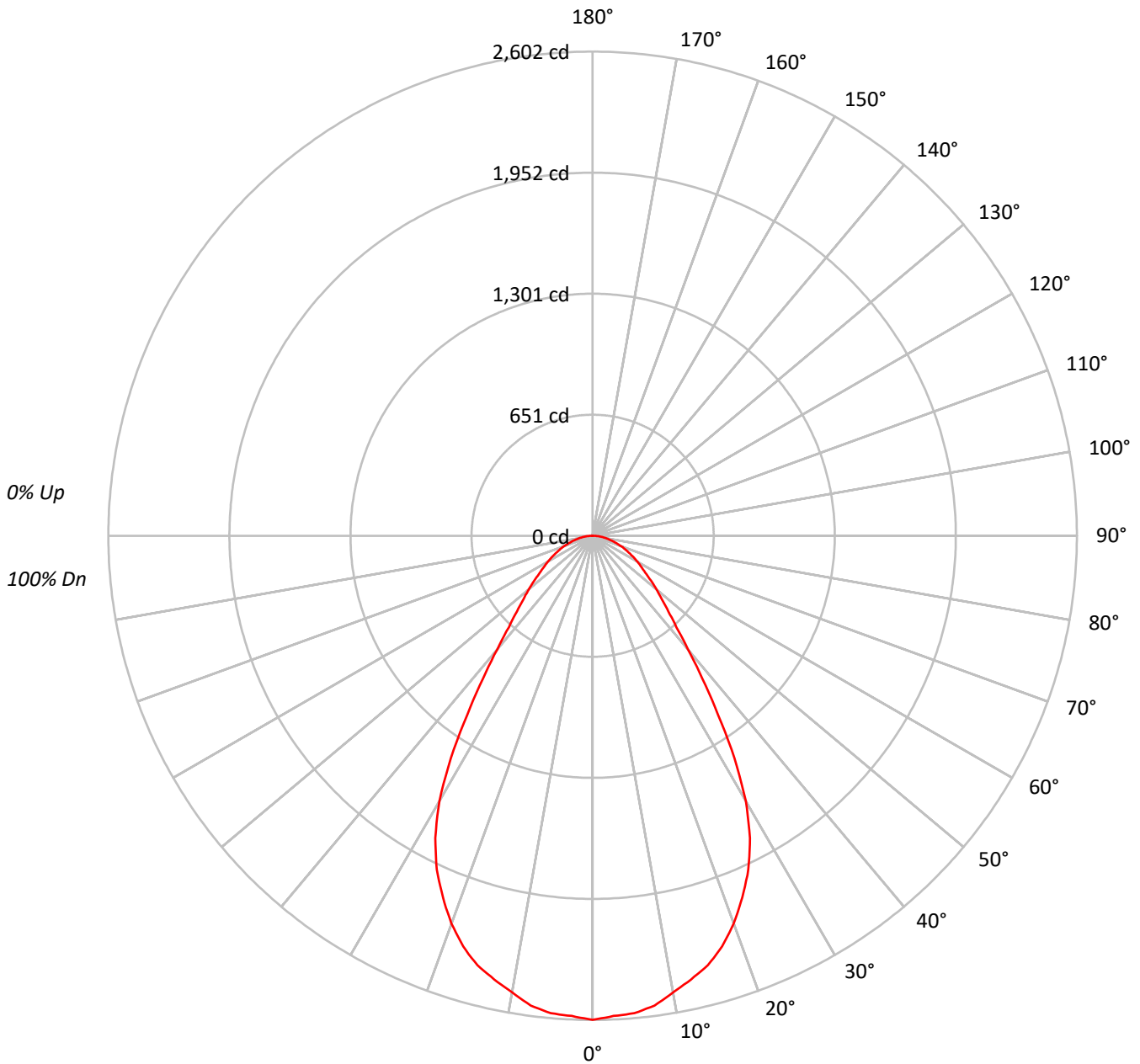
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	320884
5°	318865
10°	312082
15°	305183
20°	291073
25°	269445
30°	234364
35°	176973
40°	128266
45°	100232
50°	85718
55°	74148
60°	68309
65°	62517
70°	58387
75°	53519
80°	50149
85°	48118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	6.6
10°-20°	669.4	18.1
20°-30°	900.2	24.4
30°-40°	740.2	20.0
40°-50°	454.6	12.3
50°-60°	314.6	8.5
60°-70°	214.4	5.8
70°-80°	119.5	3.2
80°-90°	38.1	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°	1812.8	49.1
0°-40°	2553.0	69.1
0°-60°	3322.2	89.9
0°-90°	3694.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3694.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2602	
5°	2575	243
15°	2390	669
25°	1980	900
35°	1175	740
45°	575	455
55°	345	315
65°	214	214
75°	112	119
85°	34	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2601.5
2.5°	2583.2
5°	2575.3
7.5°	2546.6
10°	2491.7
12.5°	2442.1
15°	2389.9
17.5°	2314.1
20°	2217.5
22.5°	2102.5
25°	1979.8
27.5°	1830.9
30°	1645.5
32.5°	1418.2
35°	1175.3
37.5°	966.4
40°	796.6
42.5°	666.0
45°	574.6
47.5°	504.1
50°	446.7
52.5°	394.4
55°	344.8
57.5°	308.2
60°	276.9
62.5°	245.5
65°	214.2
67.5°	188.0
70°	161.9
72.5°	135.8
75°	112.3
77.5°	88.8
80°	70.6
82.5°	52.3
85°	34.0
87.5°	18.3
90°	0.0



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— 0°-180°







(END OF REPORT)