

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: P580714

Luminaire Tested: **HC445D010-HM44560830-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580714
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-HM44560830-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4275.0 lumens
Efficiency: N/A
Efficacy: 97.2 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

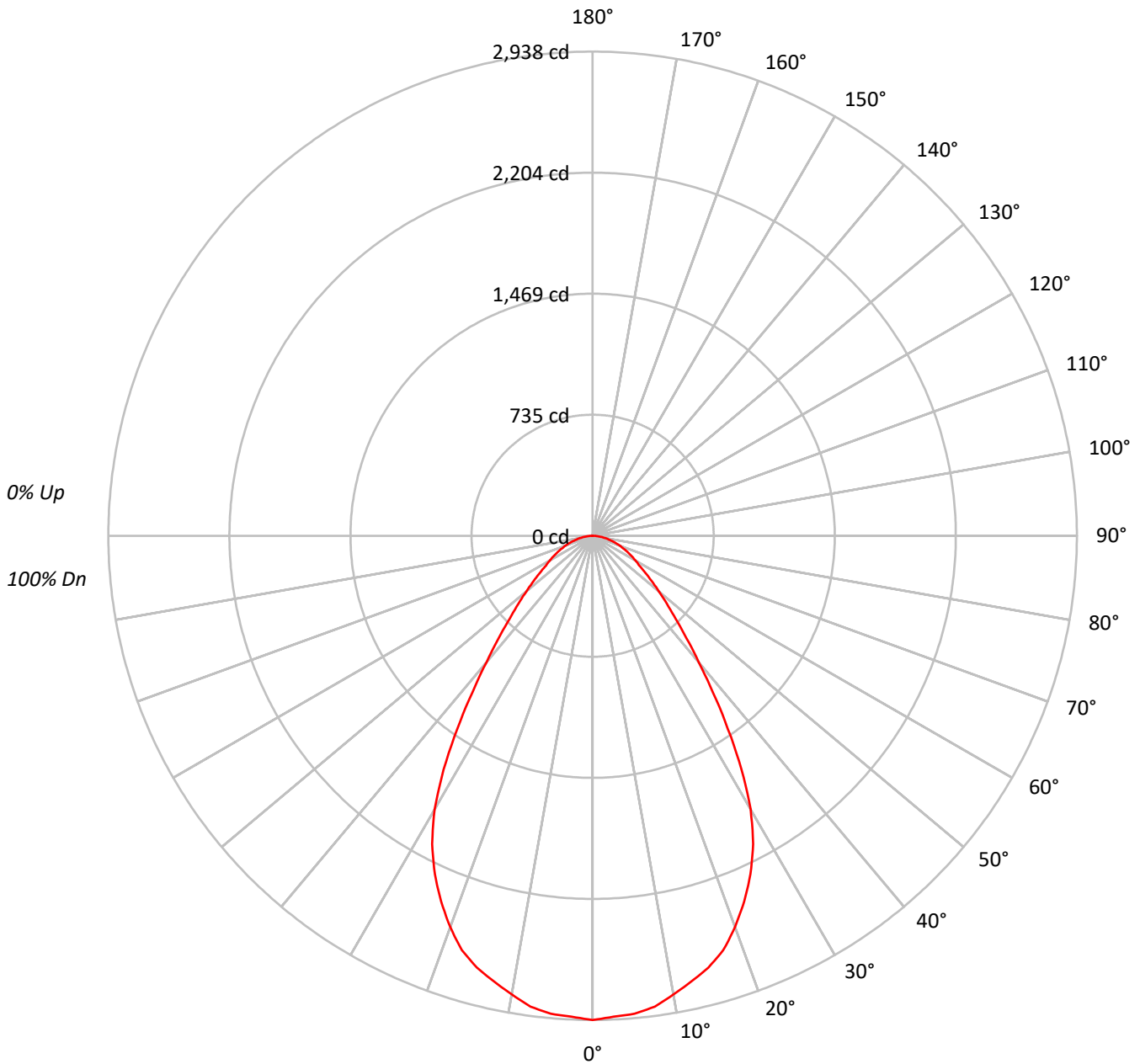
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	362439
5°	360517
10°	353927
15°	346467
20°	331646
25°	308395
30°	272962
35°	215431
40°	161210
45°	124007
50°	100609
55°	83438
60°	73785
65°	68295
70°	63040
75°	57856
80°	52635
85°	41891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	6.4
10°-20°	760.9	17.8
20°-30°	1033.2	24.2
30°-40°	895.0	20.9
40°-50°	561.9	13.1
50°-60°	353.5	8.3
60°-70°	232.2	5.4
70°-80°	128.1	3.0
80°-90°	35.1	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°	2069.3	48.4
0°-40°	2964.3	69.3
0°-60°	3879.7	90.8
0°-90°	4275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4275.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2938	
5°	2912	275
15°	2713	761
25°	2266	1033
35°	1431	895
45°	711	562
55°	388	353
65°	234	232
75°	121	128
85°	30	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2938.4
2.5°	2920.6
5°	2911.7
7.5°	2882.1
10°	2825.8
12.5°	2769.5
15°	2713.2
17.5°	2636.3
20°	2526.6
22.5°	2402.2
25°	2266.0
27.5°	2109.0
30°	1916.5
32.5°	1682.4
35°	1430.7
37.5°	1199.6
40°	1001.2
42.5°	844.2
45°	710.9
47.5°	610.1
50°	524.3
52.5°	450.3
55°	388.0
57.5°	334.7
60°	299.1
62.5°	266.6
65°	234.0
67.5°	201.4
70°	174.8
72.5°	145.2
75°	121.4
77.5°	94.8
80°	74.1
82.5°	50.4
85°	29.6
87.5°	11.9
90°	0.0



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— 0°-180°







(END OF REPORT)