

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: P583469

Luminaire Tested: **HC805D010-HM80520835-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC805D010-HM80520835-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 753.9 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

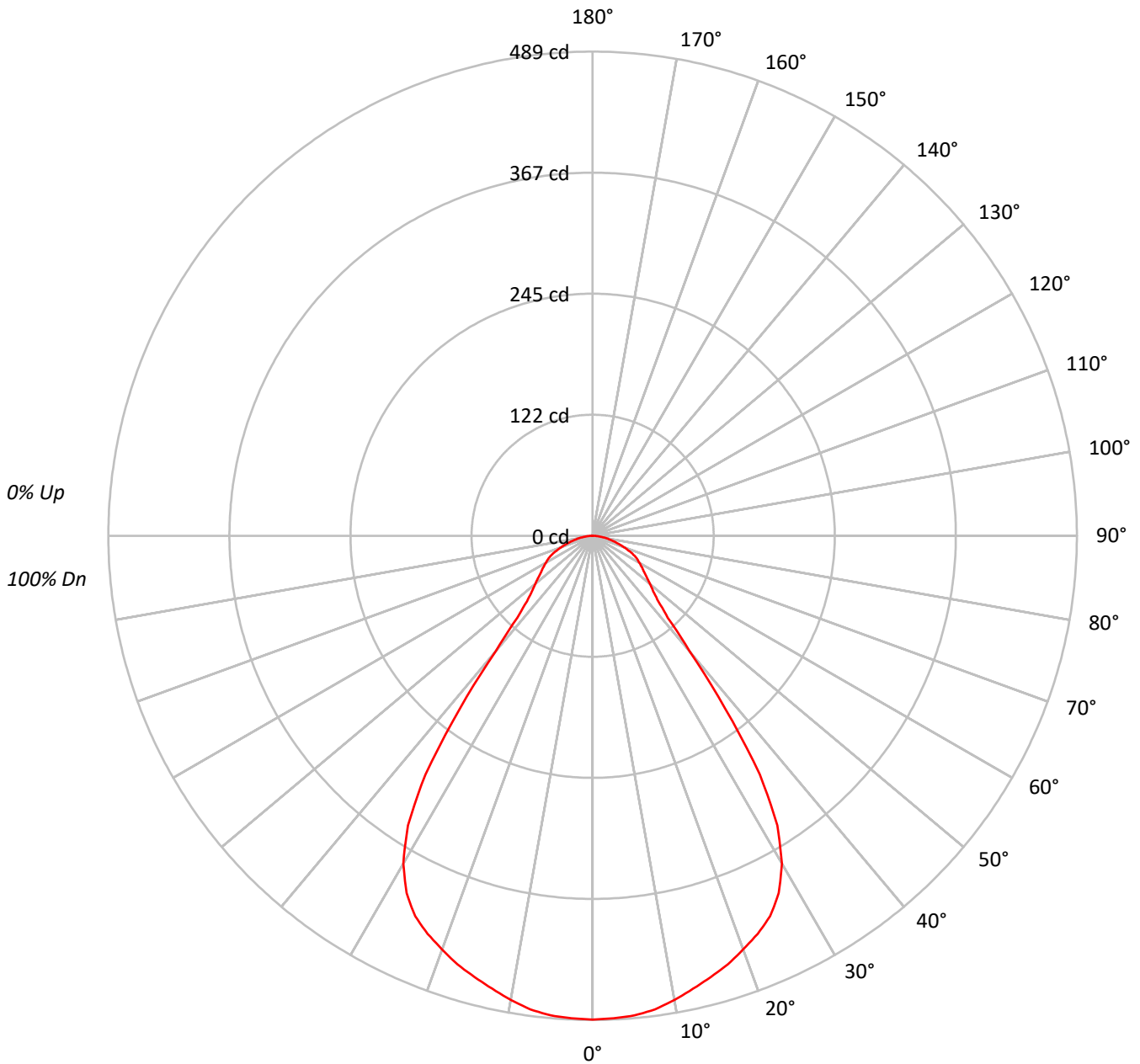
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63		
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57		
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52		
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48		
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	43	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°	15070
5°	15053
10°	14905
15°	14727
20°	14590
25°	14426
30°	13612
35°	11086
40°	6123
45°	4086
50°	3622
55°	3403
60°	3361
65°	3327
70°	3011
75°	2693
80°	2362
85°	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	6.1
10°-20°	130.2	17.3
20°-30°	193.5	25.7
30°-40°	174.3	23.1
40°-50°	77.3	10.2
50°-60°	57.2	7.6
60°-70°	44.5	5.9
70°-80°	24.2	3.2
80°-90°	6.6	0.9
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°	369.9	49.1
0°-40°	544.2	72.2
0°-60°	678.7	90.0
0°-90°	753.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	753.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	489	
5°	486	46
15°	461	130
25°	424	194
35°	294	174
45°	94	77
55°	63	57
65°	46	44
75°	23	24
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	488.7
2.5°	487.8
5°	486.3
7.5°	482.4
10°	476.0
12.5°	468.6
15°	461.3
17.5°	453.9
20°	444.6
22.5°	435.2
25°	424.0
27.5°	406.9
30°	382.3
32.5°	347.0
35°	294.5
37.5°	219.9
40°	152.1
42.5°	112.4
45°	93.7
47.5°	83.0
50°	75.5
52.5°	68.7
55°	63.3
57.5°	58.9
60°	54.5
62.5°	50.5
65°	45.6
67.5°	39.7
70°	33.4
72.5°	28.0
75°	22.6
77.5°	17.7
80°	13.3
82.5°	9.3
85°	5.9
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)