

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: P583536

Luminaire Tested: **HC805D010-HM80520935-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC805D010-HM80520935-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 716.7 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

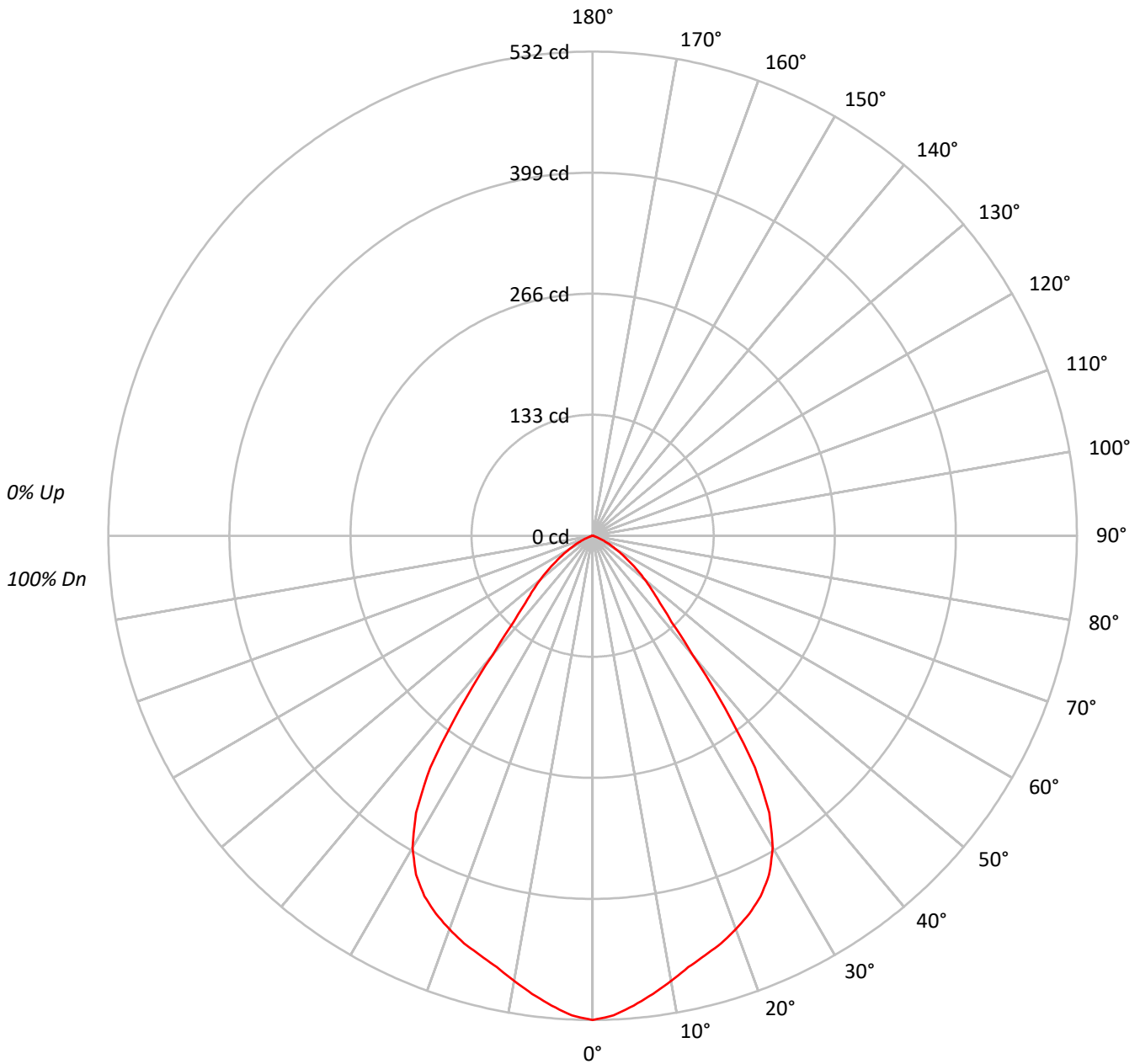
Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16408
5°	16037
10°	15546
15°	15231
20°	15095
25°	14869
30°	14086
35°	11704
40°	6891
45°	4557
50°	3588
55°	2640
60°	1832
65°	1116
70°	487
75°	214
80°	178
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	6.8
10°-20°	134.9	18.8
20°-30°	199.8	27.9
30°-40°	184.7	25.8
40°-50°	85.1	11.9
50°-60°	44.8	6.3
60°-70°	15.8	2.2
70°-80°	2.5	0.3
80°-90°	0.3	0.0
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°	383.5	53.5
0°-40°	568.2	79.3
0°-60°	698.1	97.4
0°-90°	716.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	716.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	532	
5°	518	49
15°	477	135
25°	437	200
35°	311	185
45°	104	85
55°	49	45
65°	15	16
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	532.1
2.5°	527.5
5°	518.1
7.5°	507.8
10°	496.5
12.5°	485.6
15°	477.1
17.5°	469.5
20°	460.0
22.5°	449.6
25°	437.0
27.5°	419.9
30°	395.6
32.5°	360.9
35°	310.9
37.5°	238.8
40°	171.2
42.5°	128.4
45°	104.5
47.5°	88.7
50°	74.8
52.5°	61.3
55°	49.1
57.5°	38.8
60°	29.7
62.5°	22.5
65°	15.3
67.5°	9.0
70°	5.4
72.5°	3.1
75°	1.8
77.5°	1.3
80°	1.0
82.5°	0.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)