

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: P583741

Luminaire Tested: **HC810D010-HM80520835-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583741
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: HC810D010-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: 1237.6 lumens
Efficiency: N/A
Efficacy: 125.0 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

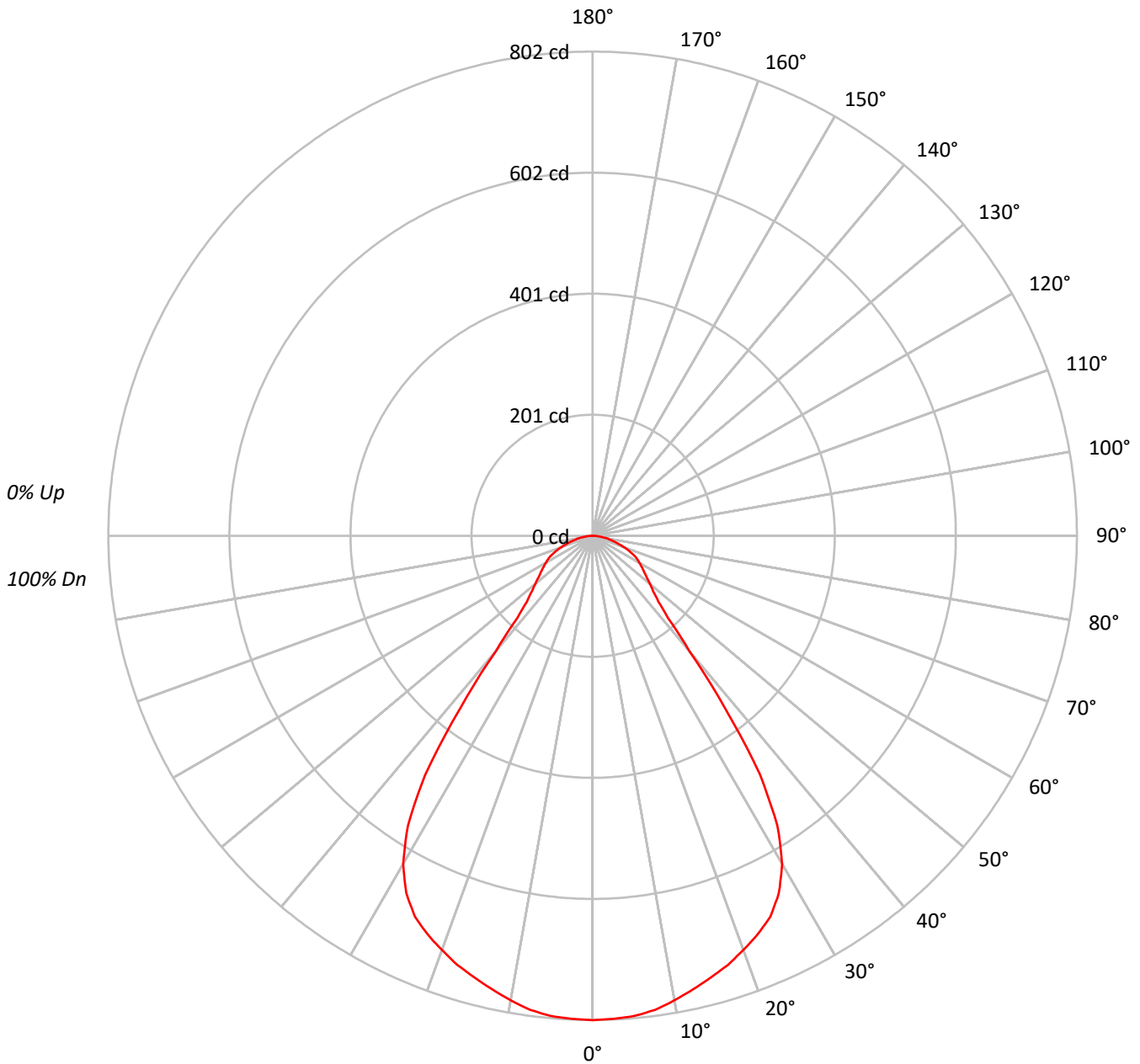
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	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	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24746
5°	24714
10°	24467
15°	24176
20°	23952
25°	23684
30°	22347
35°	18197
40°	10055
45°	6711
50°	5949
55°	5591
60°	5514
65°	5465
70°	4941
75°	4408
80°	3871
85°	3397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	6.1
10°-20°	213.8	17.3
20°-30°	317.7	25.7
30°-40°	286.2	23.1
40°-50°	126.9	10.3
50°-60°	93.9	7.6
60°-70°	73.0	5.9
70°-80°	39.6	3.2
80°-90°	10.9	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°	607.2	49.1
0°-40°	893.4	72.2
0°-60°	1114.1	90.0
0°-90°	1237.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1237.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	802	
5°	798	76
15°	757	214
25°	696	318
35°	483	286
45°	154	127
55°	104	94
65°	75	73
75°	37	40
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	802.5
2.5°	800.8
5°	798.4
7.5°	792.0
10°	781.4
12.5°	769.4
15°	757.3
17.5°	745.2
20°	729.9
22.5°	714.6
25°	696.1
27.5°	667.8
30°	627.6
32.5°	569.6
35°	483.4
37.5°	361.0
40°	249.8
42.5°	184.5
45°	153.9
47.5°	136.2
50°	124.0
52.5°	112.7
55°	104.0
57.5°	96.6
60°	89.4
62.5°	82.9
65°	74.9
67.5°	65.3
70°	54.8
72.5°	45.9
75°	37.0
77.5°	29.0
80°	21.8
82.5°	15.3
85°	9.6
87.5°	4.1
90°	0.0



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— 0°-180°







(END OF REPORT)