

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: P583827

Luminaire Tested: **HC810D010-HM80520940-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC810D010-HM80520940-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1254.2 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

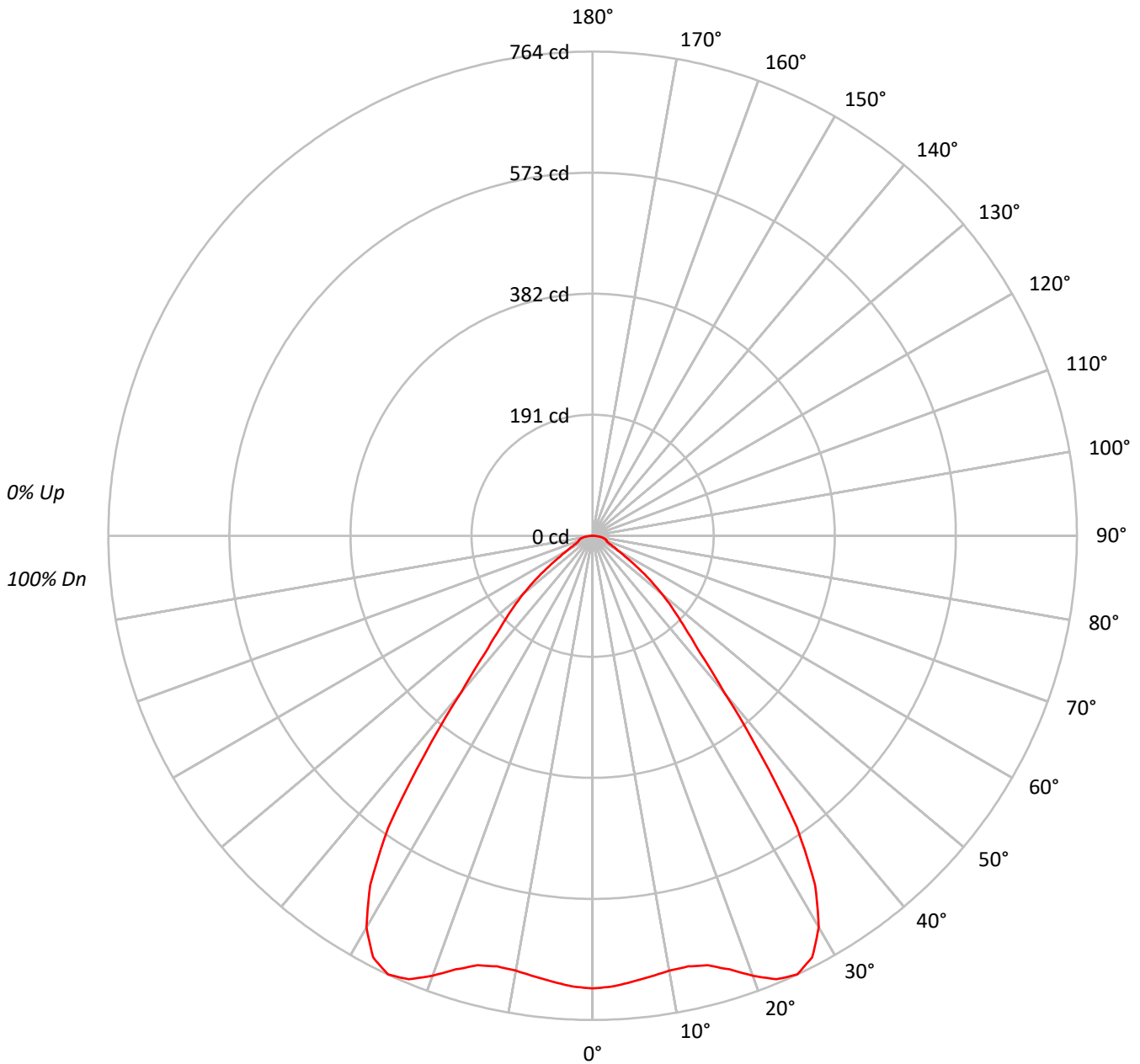
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22023
5°	21875
10°	21818
15°	22392
20°	24237
25°	25988
30°	25405
35°	21152
40°	12998
45°	9001
50°	6870
55°	4505
60°	2818
65°	2116
70°	2128
75°	2454
80°	2717
85°	2441



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	5.4
10°-20°	201.3	16.1
20°-30°	346.6	27.6
30°-40°	335.8	26.8
40°-50°	165.4	13.2
50°-60°	78.1	6.2
60°-70°	30.8	2.5
70°-80°	21.2	1.7
80°-90°	7.9	0.6
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°	615.1	49.0
0°-40°	950.8	75.8
0°-60°	1194.3	95.2
0°-90°	1254.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1254.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	714	
5°	707	67
15°	701	201
25°	764	347
35°	562	336
45°	206	165
55°	84	78
65°	29	31
75°	21	21
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	714.2
2.5°	711.9
5°	706.7
7.5°	701.4
10°	696.8
12.5°	696.0
15°	701.4
17.5°	717.4
20°	738.6
22.5°	757.6
25°	763.8
27.5°	750.0
30°	713.5
32.5°	653.3
35°	561.9
37.5°	436.3
40°	322.9
42.5°	250.5
45°	206.4
47.5°	173.6
50°	143.2
52.5°	112.7
55°	83.8
57.5°	60.9
60°	45.7
62.5°	35.8
65°	29.0
67.5°	25.1
70°	23.6
72.5°	22.1
75°	20.6
77.5°	18.3
80°	15.3
82.5°	11.4
85°	6.9
87.5°	3.0
90°	0.0



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— 0°-180°







(END OF REPORT)