

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: P583639

Luminaire Tested: **HC807D010-HM80520927-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583639
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: HC807D010-HM80520927-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 780.4 lumens
Efficiency: N/A
Efficacy: 97.6 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

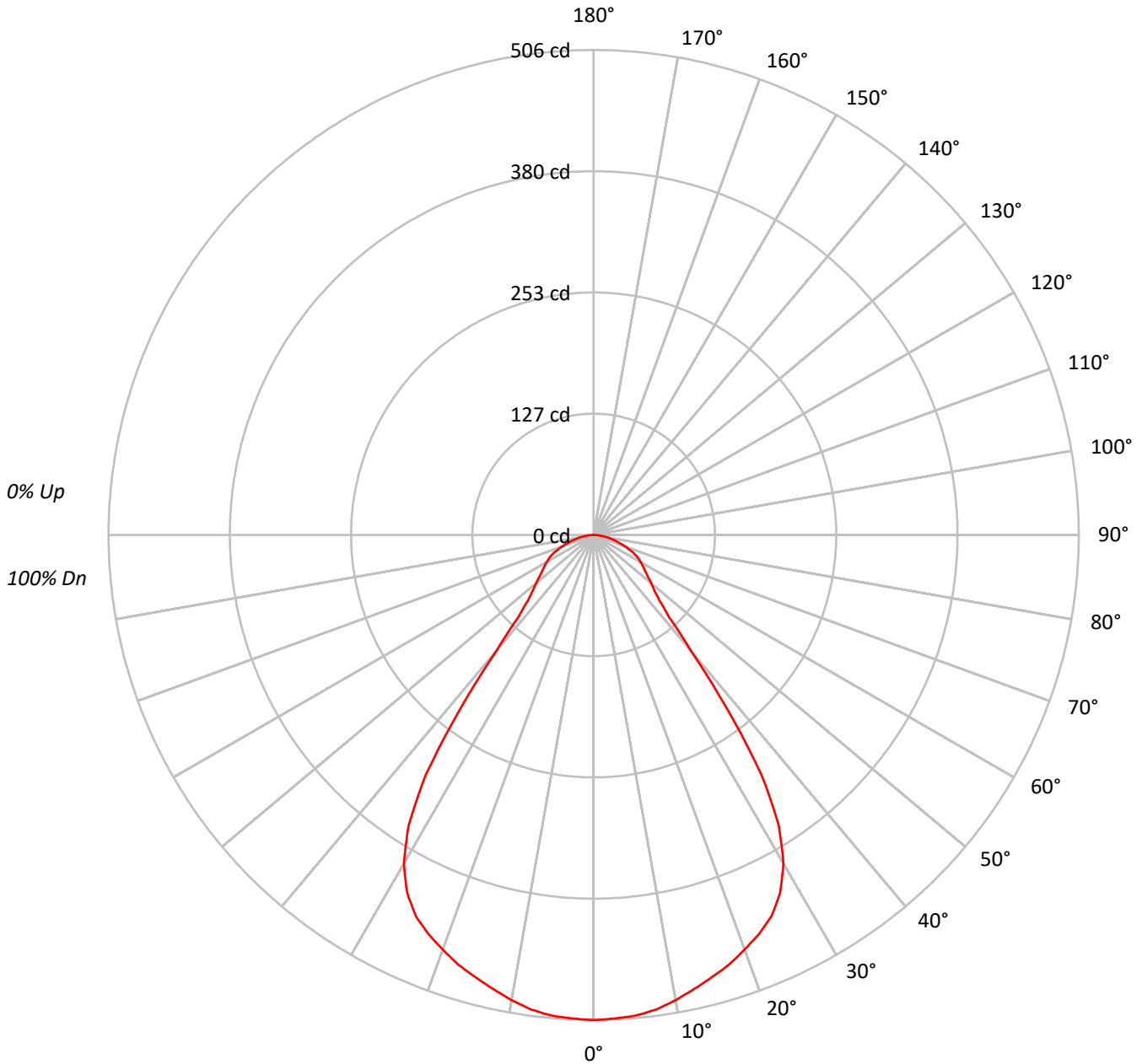
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	15606
5°	15585
10°	15431
15°	15247
20°	15105
25°	14933
30°	14093
35°	11474
40°	6340
45°	4230
50°	3756
55°	3521
60°	3478
65°	3444
70°	3110
75°	2788
80°	2433
85°	2158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	6.1
10°-20°	134.9	17.3
20°-30°	200.4	25.7
30°-40°	180.4	23.1
40°-50°	80.0	10.3
50°-60°	59.2	7.6
60°-70°	46.0	5.9
70°-80°	25.0	3.2
80°-90°	6.8	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°	382.9	49.1
0°-40°	563.4	72.2
0°-60°	702.6	90.0
0°-90°	780.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	780.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	506	
5°	504	48
15°	478	135
25°	439	200
35°	305	180
45°	97	80
55°	66	59
65°	47	46
75°	23	25
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	506.1
2.5°	505.0
5°	503.5
7.5°	499.4
10°	492.8
12.5°	485.2
15°	477.6
17.5°	470.0
20°	460.3
22.5°	450.6
25°	438.9
27.5°	421.2
30°	395.8
32.5°	359.2
35°	304.8
37.5°	227.6
40°	157.5
42.5°	116.4
45°	97.0
47.5°	85.9
50°	78.3
52.5°	71.1
55°	65.5
57.5°	60.9
60°	56.4
62.5°	52.3
65°	47.2
67.5°	41.1
70°	34.5
72.5°	28.9
75°	23.4
77.5°	18.3
80°	13.7
82.5°	9.7
85°	6.1
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)