

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: P585006

Luminaire Tested: **HC855D010-HM82555930-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC855D010-HM82555930-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5184.2 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

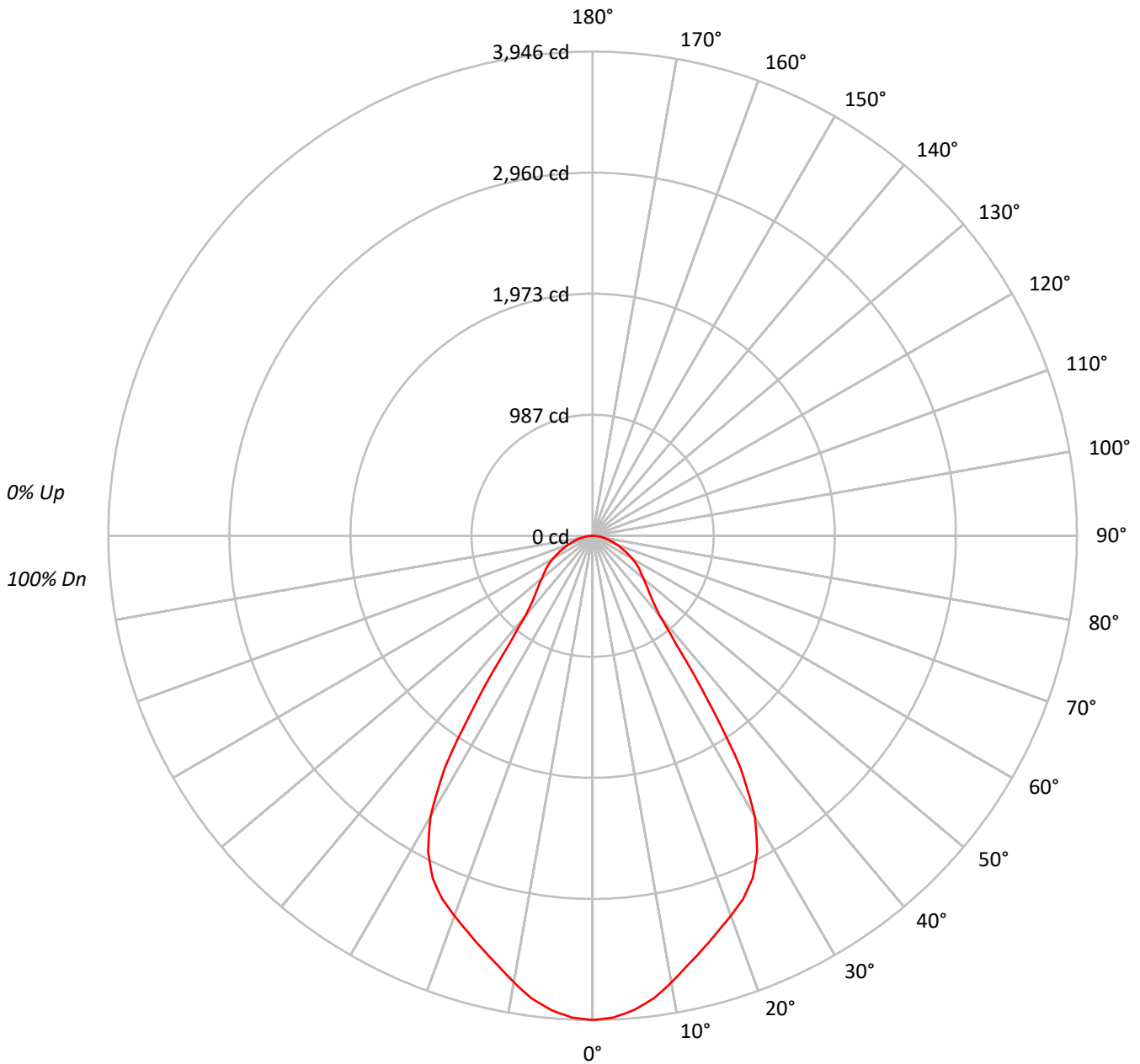
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53	53	53	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	121686
5°	120102
10°	115704
15°	111179
20°	108107
25°	104852
30°	94087
35°	61680
40°	34099
45°	28429
50°	25920
55°	24736
60°	23004
65°	20861
70°	18861
75°	17037
80°	15485
85°	14789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.6	7.0
10°-20°	982.5	19.0
20°-30°	1398.3	27.0
30°-40°	1034.9	20.0
40°-50°	512.6	9.9
50°-60°	409.1	7.9
60°-70°	284.0	5.5
70°-80°	153.1	3.0
80°-90°	45.1	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°	2745.4	53.0
0°-40°	3780.3	72.9
0°-60°	4702.0	90.7
0°-90°	5184.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5184.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3946	
5°	3880	365
15°	3483	983
25°	3082	1398
35°	1638	1035
45°	652	513
55°	460	409
65°	286	284
75°	143	153
85°	42	45
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3946.2
2.5°	3928.8
5°	3880.0
7.5°	3803.3
10°	3695.2
12.5°	3583.6
15°	3482.6
17.5°	3385.0
20°	3294.4
22.5°	3203.7
25°	3081.7
27.5°	2903.9
30°	2642.4
32.5°	2241.6
35°	1638.5
37.5°	1119.0
40°	847.1
42.5°	725.1
45°	651.9
47.5°	592.7
50°	540.3
52.5°	495.1
55°	460.1
57.5°	418.3
60°	373.0
62.5°	327.7
65°	285.9
67.5°	244.0
70°	209.2
72.5°	174.3
75°	143.0
77.5°	115.1
80°	87.2
82.5°	62.7
85°	41.8
87.5°	17.5
90°	0.0



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— 0°-180°







(END OF REPORT)