

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: P585210

Luminaire Tested: **HC880D010-HM86080830-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585210
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: HC880D010-HM86080830-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6148.0 lumens
Efficiency: N/A
Efficacy: 87.8 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

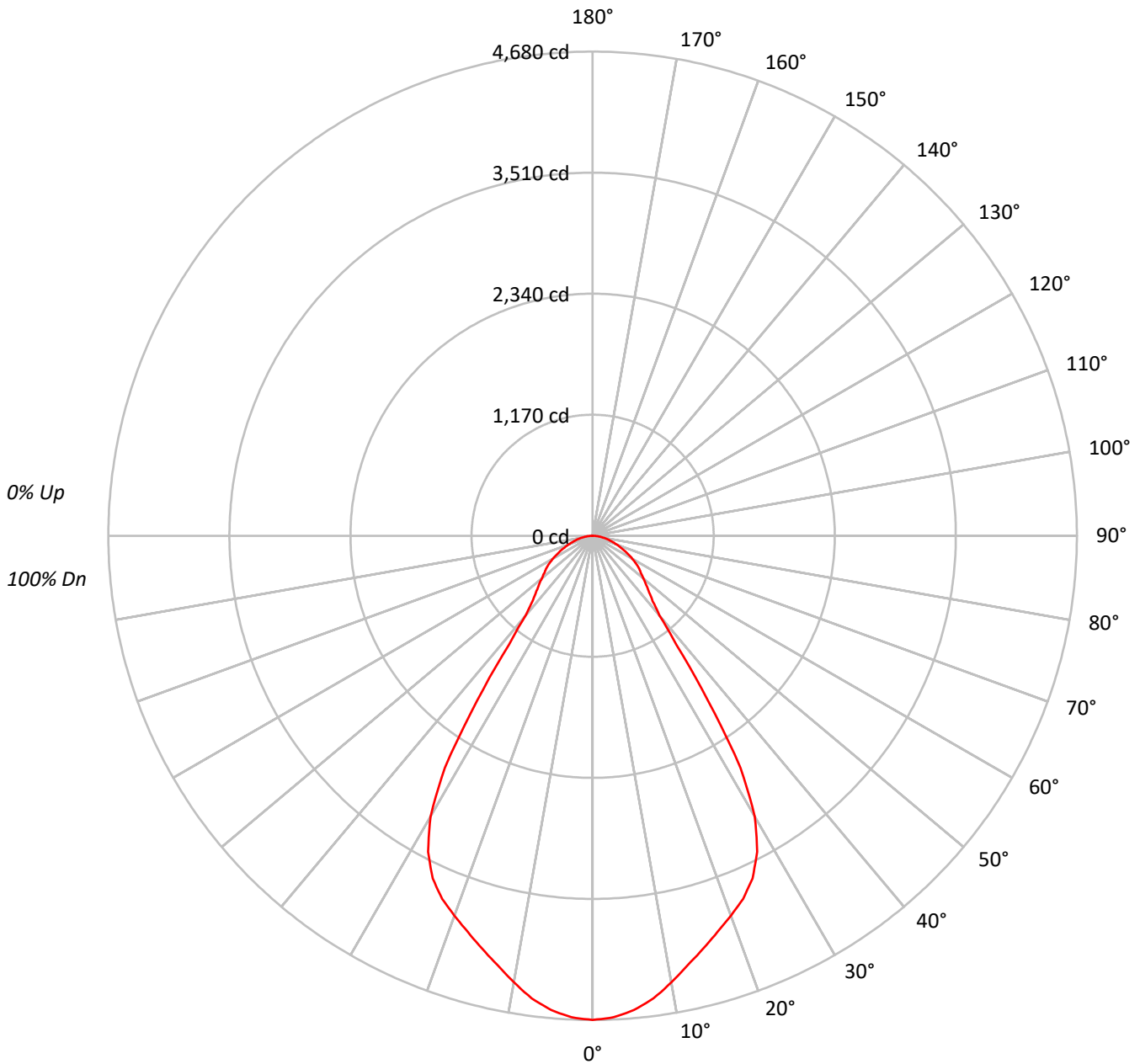
Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	144314
5°	142432
10°	137219
15°	131850
20°	128203
25°	124345
30°	111581
35°	73146
40°	40439
45°	33714
50°	30741
55°	29343
60°	27278
65°	24735
70°	22360
75°	20207
80°	18344
85°	17549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.3	7.0
10°-20°	1165.2	19.0
20°-30°	1658.3	27.0
30°-40°	1227.3	20.0
40°-50°	607.9	9.9
50°-60°	485.2	7.9
60°-70°	336.8	5.5
70°-80°	181.5	3.0
80°-90°	53.4	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°	3255.8	53.0
0°-40°	4483.2	72.9
0°-60°	5576.2	90.7
0°-90°	6148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6148.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4680	
5°	4601	432
15°	4130	1165
25°	3655	1658
35°	1943	1227
45°	773	608
55°	546	485
65°	339	337
75°	170	182
85°	50	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4680.0
2.5°	4659.3
5°	4601.4
7.5°	4510.5
10°	4382.3
12.5°	4250.0
15°	4130.1
17.5°	4014.4
20°	3906.8
22.5°	3799.3
25°	3654.6
27.5°	3443.8
30°	3133.7
32.5°	2658.4
35°	1943.1
37.5°	1327.0
40°	1004.6
42.5°	859.9
45°	773.1
47.5°	702.8
50°	640.8
52.5°	587.0
55°	545.8
57.5°	496.2
60°	442.3
62.5°	388.6
65°	339.0
67.5°	289.4
70°	248.0
72.5°	206.8
75°	169.6
77.5°	136.4
80°	103.3
82.5°	74.4
85°	49.6
87.5°	20.7
90°	0.0



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— 0°-180°







(END OF REPORT)