

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: P581274

Luminaire Tested: **HC460D010-HM44560827-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560827-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4343.5 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

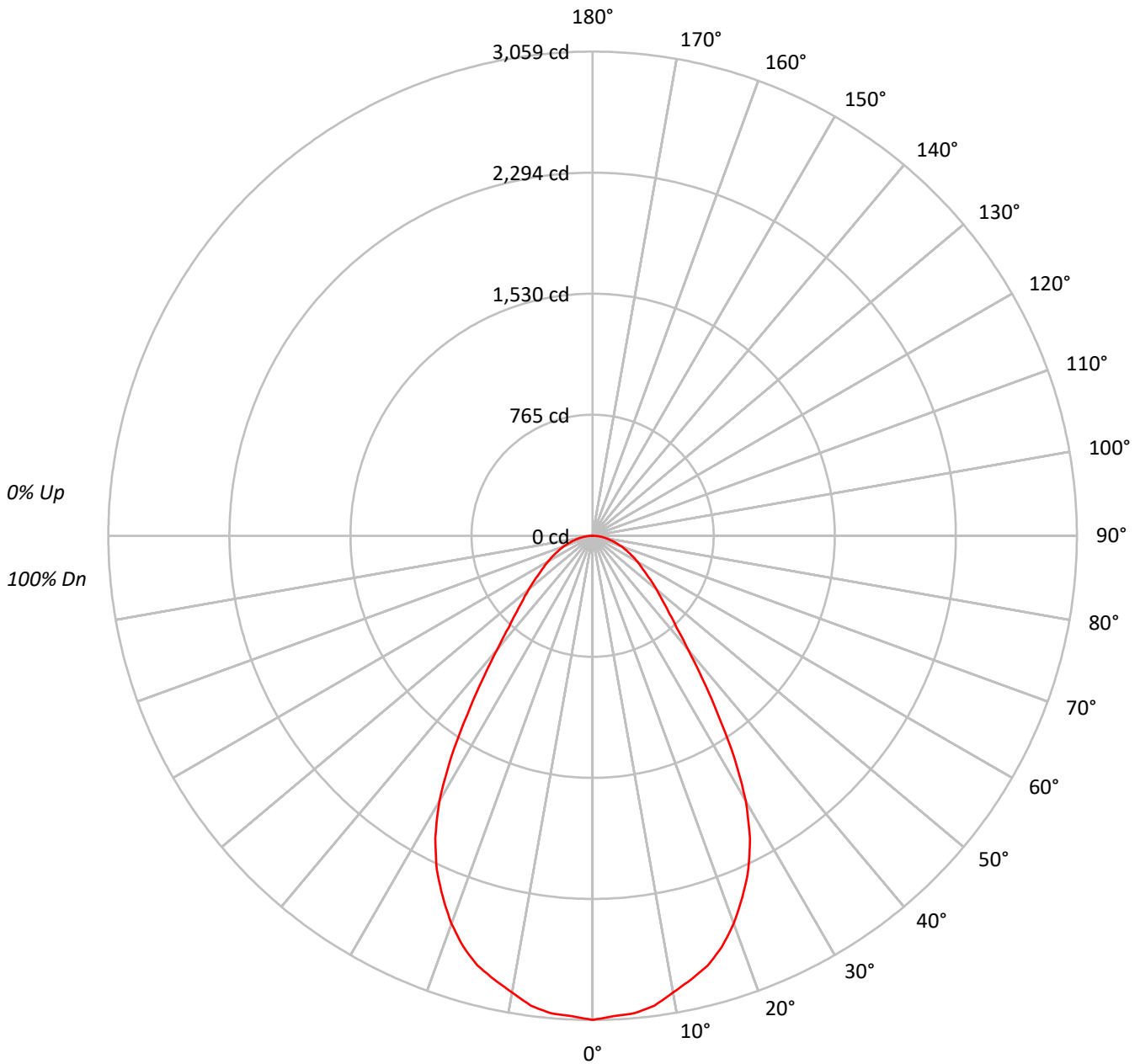
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	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°	377277
5°	374917
10°	366953
15°	358828
20°	342239
25°	316820
30°	275554
35°	208083
40°	150824
45°	117850
50°	100762
55°	87180
60°	80298
65°	73491
70°	68666
75°	62955
80°	58885
85°	56468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.0	6.6
10°-20°	787.1	18.1
20°-30°	1058.4	24.4
30°-40°	870.3	20.0
40°-50°	534.5	12.3
50°-60°	369.9	8.5
60°-70°	252.2	5.8
70°-80°	140.5	3.2
80°-90°	44.7	1.0
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°	2131.5	49.1
0°-40°	3001.8	69.1
0°-60°	3906.1	89.9
0°-90°	4343.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4343.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3059	
5°	3028	286
15°	2810	787
25°	2328	1058
35°	1382	870
45°	676	534
55°	405	370
65°	252	252
75°	132	141
85°	40	45
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3058.7
2.5°	3037.3
5°	3028.0
7.5°	2994.2
10°	2929.8
12.5°	2871.3
15°	2810.0
17.5°	2720.8
20°	2607.3
22.5°	2472.1
25°	2327.9
27.5°	2152.8
30°	1934.7
32.5°	1667.5
35°	1381.9
37.5°	1136.2
40°	936.7
42.5°	783.1
45°	675.6
47.5°	592.7
50°	525.1
52.5°	463.7
55°	405.4
57.5°	362.4
60°	325.5
62.5°	288.7
65°	251.8
67.5°	221.1
70°	190.4
72.5°	159.7
75°	132.1
77.5°	104.5
80°	82.9
82.5°	61.4
85°	39.9
87.5°	21.5
90°	0.0



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— 0°-180°







(END OF REPORT)