

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: P581310

Luminaire Tested: **HC460D010-HM44560835-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581310
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-HM44560835-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4848.9 lumens
Efficiency: N/A
Efficacy: 88.2 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

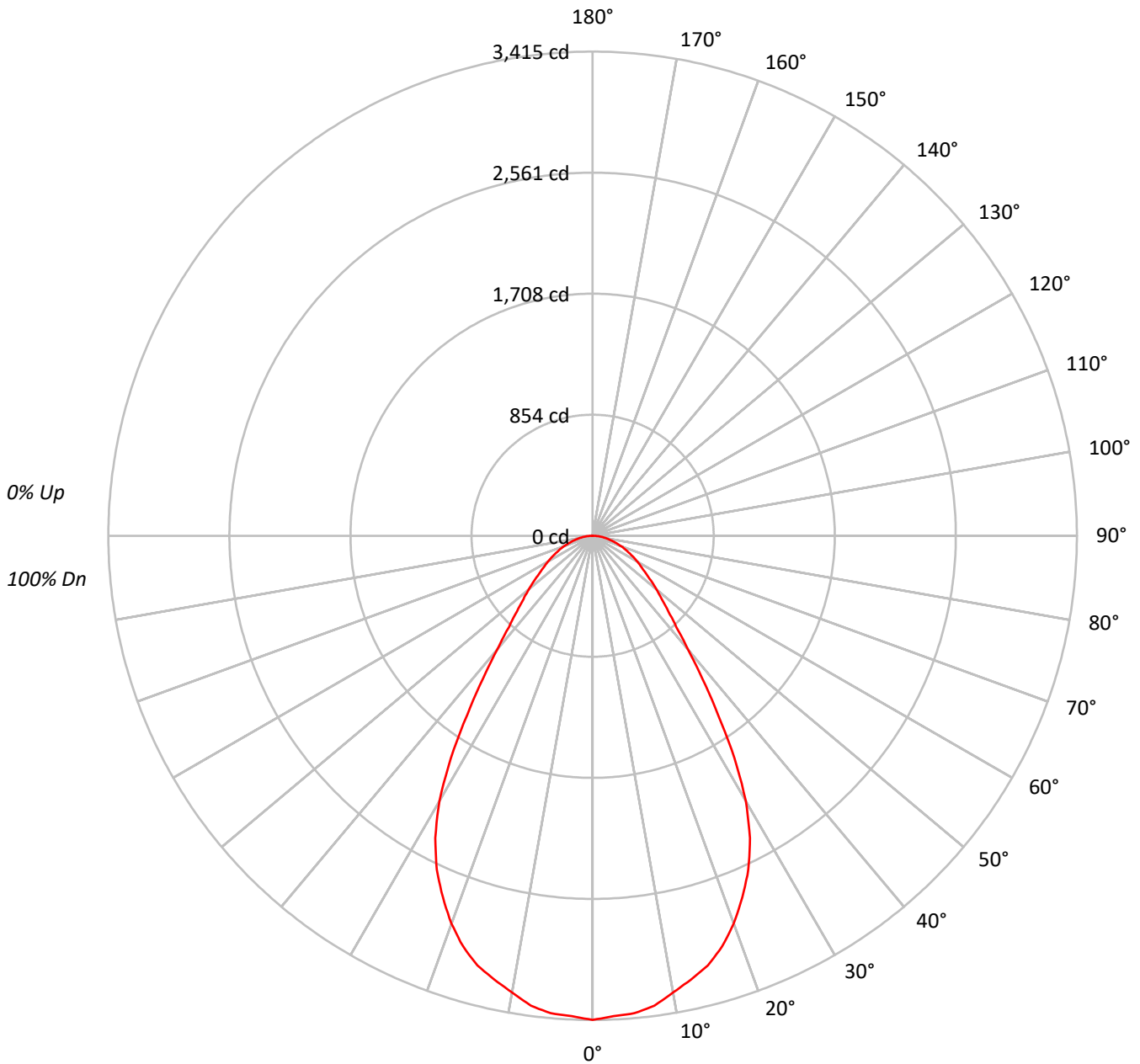
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	421176
5°	418550
10°	409638
15°	400585
20°	382063
25°	353675
30°	307629
35°	232311
40°	168375
45°	131560
50°	112487
55°	97330
60°	89648
65°	82042
70°	76636
75°	70247
80°	65776
85°	63119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.3	6.6
10°-20°	878.7	18.1
20°-30°	1181.6	24.4
30°-40°	971.6	20.0
40°-50°	596.6	12.3
50°-60°	412.9	8.5
60°-70°	281.5	5.8
70°-80°	156.8	3.2
80°-90°	49.9	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°	2379.5	49.1
0°-40°	3351.1	69.1
0°-60°	4360.7	89.9
0°-90°	4848.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4848.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3415	
5°	3380	319
15°	3137	879
25°	2599	1182
35°	1543	972
45°	754	597
55°	453	413
65°	281	281
75°	147	157
85°	45	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3414.6
2.5°	3390.7
5°	3380.4
7.5°	3342.6
10°	3270.6
12.5°	3205.4
15°	3137.0
17.5°	3037.5
20°	2910.7
22.5°	2759.8
25°	2598.7
27.5°	2403.3
30°	2159.9
32.5°	1861.5
35°	1542.8
37.5°	1268.4
40°	1045.7
42.5°	874.2
45°	754.2
47.5°	661.7
50°	586.2
52.5°	517.6
55°	452.6
57.5°	404.5
60°	363.4
62.5°	322.3
65°	281.1
67.5°	246.8
70°	212.5
72.5°	178.2
75°	147.4
77.5°	116.5
80°	92.6
82.5°	68.6
85°	44.6
87.5°	24.0
90°	0.0



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— 0°-180°







(END OF REPORT)