

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: P580518

Luminaire Tested: **HC435D010-HM43040935-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580518
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: HC435D010-HM43040935-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2971.2 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

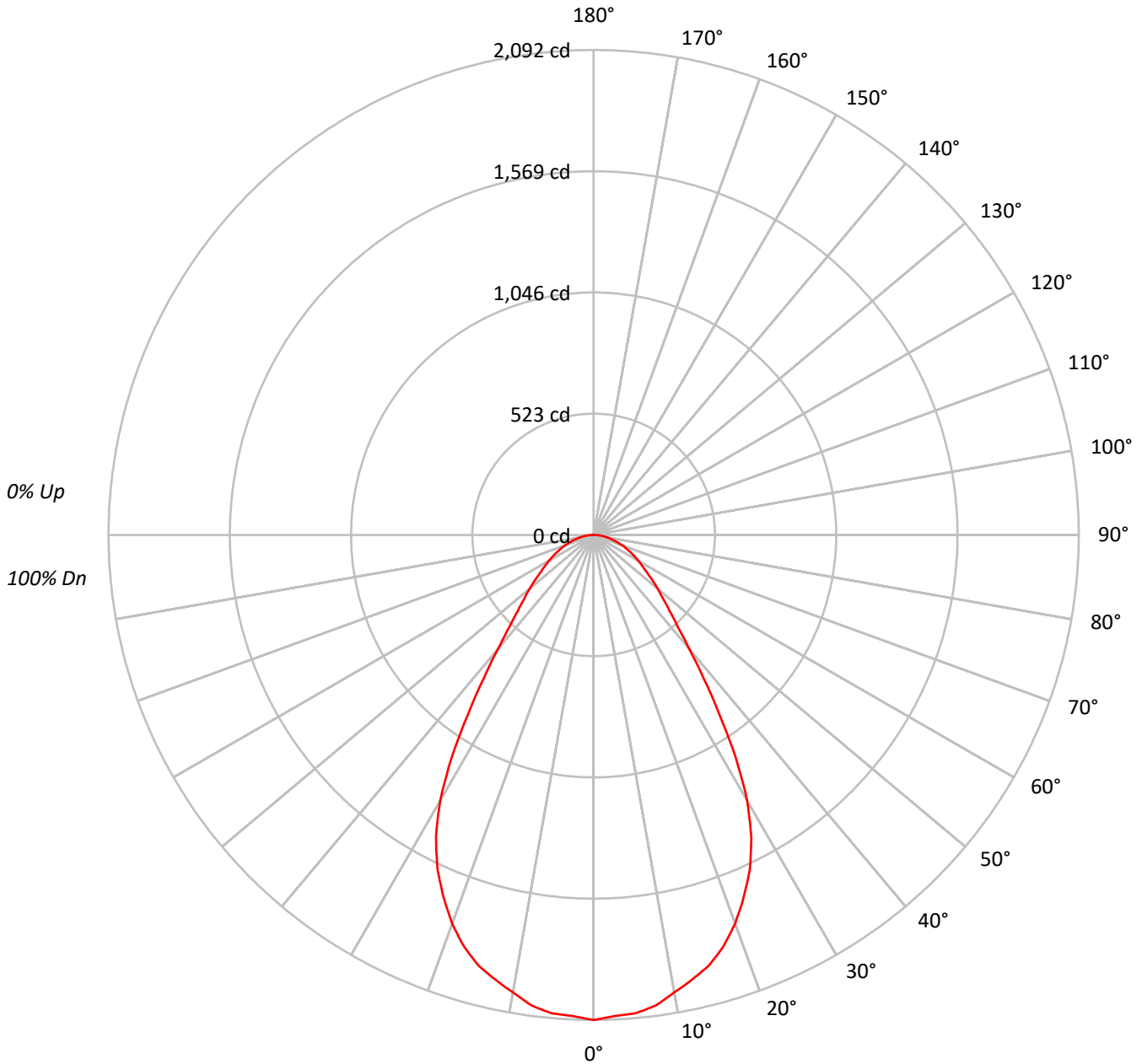
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	258076
5°	256462
10°	251010
15°	245459
20°	234118
25°	216721
30°	188488
35°	142341
40°	103163
45°	80625
50°	68928
55°	59632
60°	54938
65°	50288
70°	46991
75°	43082
80°	40346
85°	38636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	6.6
10°-20°	538.4	18.1
20°-30°	724.0	24.4
30°-40°	595.3	20.0
40°-50°	365.6	12.3
50°-60°	253.0	8.5
60°-70°	172.5	5.8
70°-80°	96.2	3.2
80°-90°	30.6	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°	1458.1	49.1
0°-40°	2053.4	69.1
0°-60°	2672.0	89.9
0°-90°	2971.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2971.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2092	
5°	2071	196
15°	1922	538
25°	1592	724
35°	945	595
45°	462	366
55°	277	253
65°	172	173
75°	90	96
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2092.3
2.5°	2077.6
5°	2071.3
7.5°	2048.2
10°	2004.1
12.5°	1964.2
15°	1922.2
17.5°	1861.2
20°	1783.6
22.5°	1691.1
25°	1592.4
27.5°	1472.6
30°	1323.4
32.5°	1140.6
35°	945.3
37.5°	777.2
40°	640.7
42.5°	535.7
45°	462.2
47.5°	405.4
50°	359.2
52.5°	317.2
55°	277.3
57.5°	247.8
60°	222.7
62.5°	197.5
65°	172.3
67.5°	151.3
70°	130.3
72.5°	109.3
75°	90.4
77.5°	71.4
80°	56.8
82.5°	42.0
85°	27.3
87.5°	14.7
90°	0.0



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— 0°-180°







(END OF REPORT)