

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: P580356

Luminaire Tested: **HC430D010-HM43040930-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580356
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: HC430D010-HM43040930-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2378.2 lumens
Efficiency: N/A
Efficacy: 84.9 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

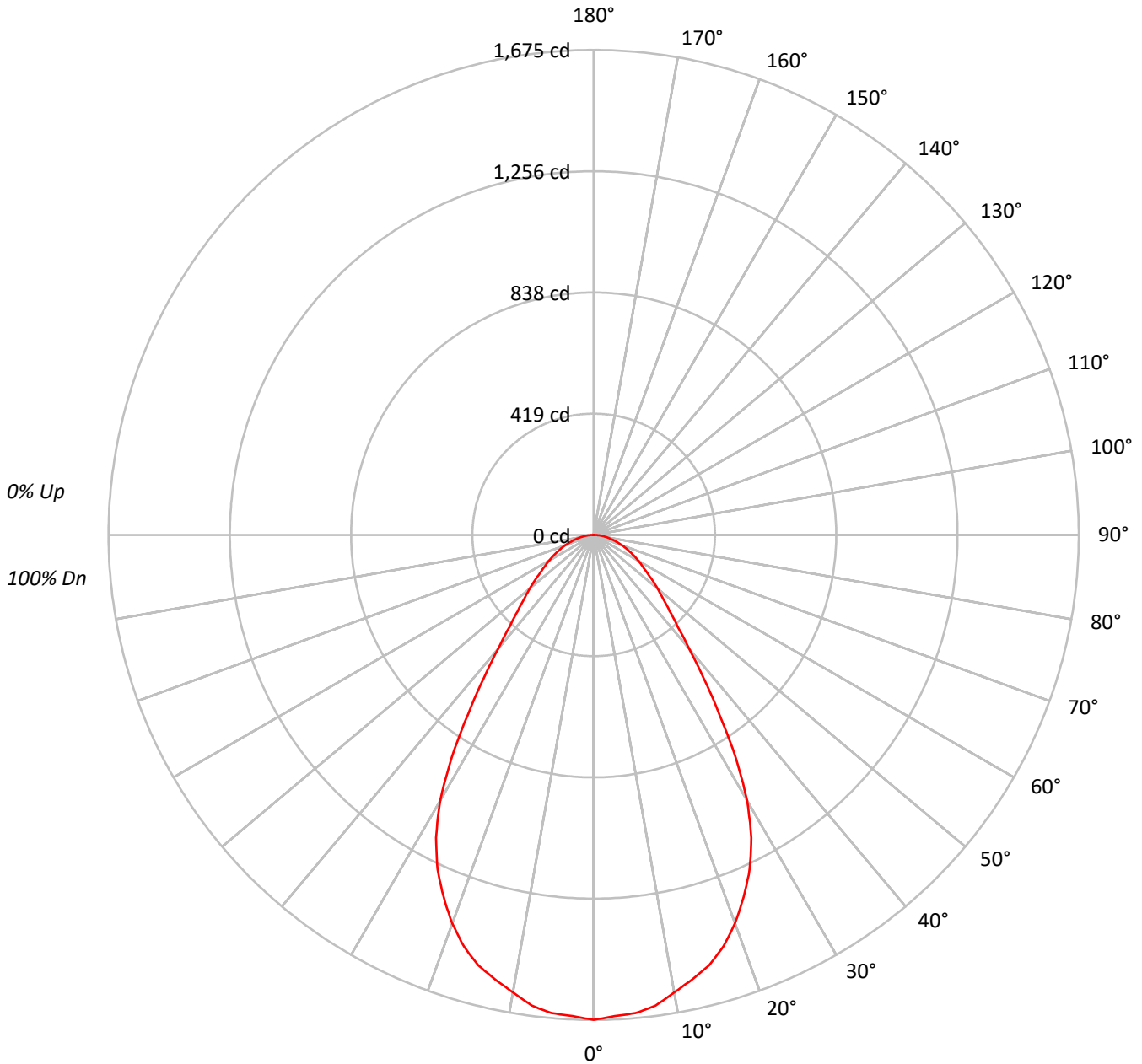
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	206592
5°	205288
10°	200924
15°	196474
20°	187389
25°	173469
30°	150887
35°	113942
40°	82585
45°	64542
50°	55169
55°	47740
60°	43960
65°	40218
70°	37579
75°	34456
80°	32177
85°	30994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.6	6.6
10°-20°	431.0	18.1
20°-30°	579.5	24.4
30°-40°	476.6	20.0
40°-50°	292.7	12.3
50°-60°	202.5	8.5
60°-70°	138.0	5.8
70°-80°	76.9	3.2
80°-90°	24.4	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°	1167.1	49.1
0°-40°	1643.7	69.1
0°-60°	2138.8	89.9
0°-90°	2378.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2378.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1675	
5°	1658	157
15°	1539	431
25°	1275	580
35°	757	477
45°	370	293
55°	222	203
65°	138	138
75°	72	77
85°	22	24
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1674.9
2.5°	1663.0
5°	1658.0
7.5°	1639.5
10°	1604.2
12.5°	1572.2
15°	1538.6
17.5°	1489.9
20°	1427.6
22.5°	1353.6
25°	1274.6
27.5°	1178.8
30°	1059.4
32.5°	913.1
35°	756.7
37.5°	622.2
40°	512.9
42.5°	428.8
45°	370.0
47.5°	324.5
50°	287.5
52.5°	253.9
55°	222.0
57.5°	198.4
60°	178.2
62.5°	158.0
65°	137.8
67.5°	121.0
70°	104.2
72.5°	87.4
75°	72.3
77.5°	57.2
80°	45.3
82.5°	33.6
85°	21.9
87.5°	11.7
90°	0.0



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— 0°-180°







(END OF REPORT)