

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: P580392

Luminaire Tested: **HC430D010-HM43040940-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580392
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-HM43040940-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2479.0 lumens
Efficiency: N/A
Efficacy: 88.5 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

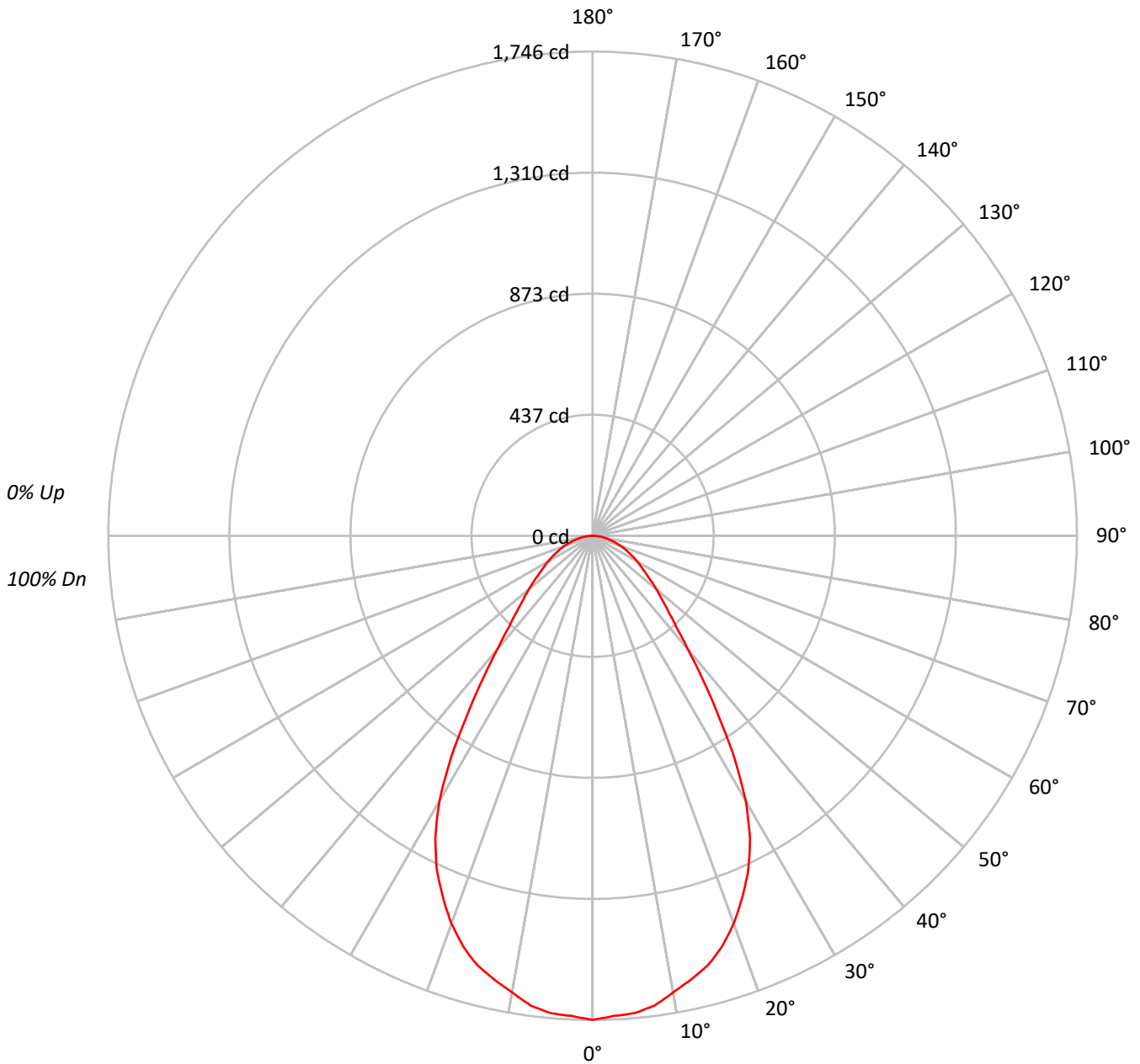
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	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°	215324
5°	213968
10°	209415
15°	204787
20°	195330
25°	180818
30°	157268
35°	118760
40°	86079
45°	67263
50°	57510
55°	49762
60°	45835
65°	41940
70°	39165
75°	35933
80°	33669
85°	32267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	6.6
10°-20°	449.2	18.1
20°-30°	604.1	24.4
30°-40°	496.7	20.0
40°-50°	305.0	12.3
50°-60°	211.1	8.5
60°-70°	143.9	5.8
70°-80°	80.2	3.2
80°-90°	25.6	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°	1216.5	49.1
0°-40°	1713.2	69.1
0°-60°	2229.3	89.9
0°-90°	2479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2479.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1746	
5°	1728	163
15°	1604	449
25°	1329	604
35°	789	497
45°	386	305
55°	231	211
65°	144	144
75°	75	80
85°	23	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1745.7
2.5°	1733.4
5°	1728.1
7.5°	1708.8
10°	1672.0
12.5°	1638.8
15°	1603.7
17.5°	1552.8
20°	1488.1
22.5°	1410.9
25°	1328.6
27.5°	1228.6
30°	1104.2
32.5°	951.7
35°	788.7
37.5°	648.5
40°	534.6
42.5°	446.9
45°	385.6
47.5°	338.3
50°	299.7
52.5°	264.6
55°	231.4
57.5°	206.8
60°	185.8
62.5°	164.8
65°	143.7
67.5°	126.2
70°	108.6
72.5°	91.1
75°	75.4
77.5°	59.6
80°	47.4
82.5°	35.1
85°	22.8
87.5°	12.3
90°	0.0



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— 0°-180°







(END OF REPORT)