

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: P580478

Luminaire Tested: **HC435D010-HM43040927-41NDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC435D010-HM43040927-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2778.1 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

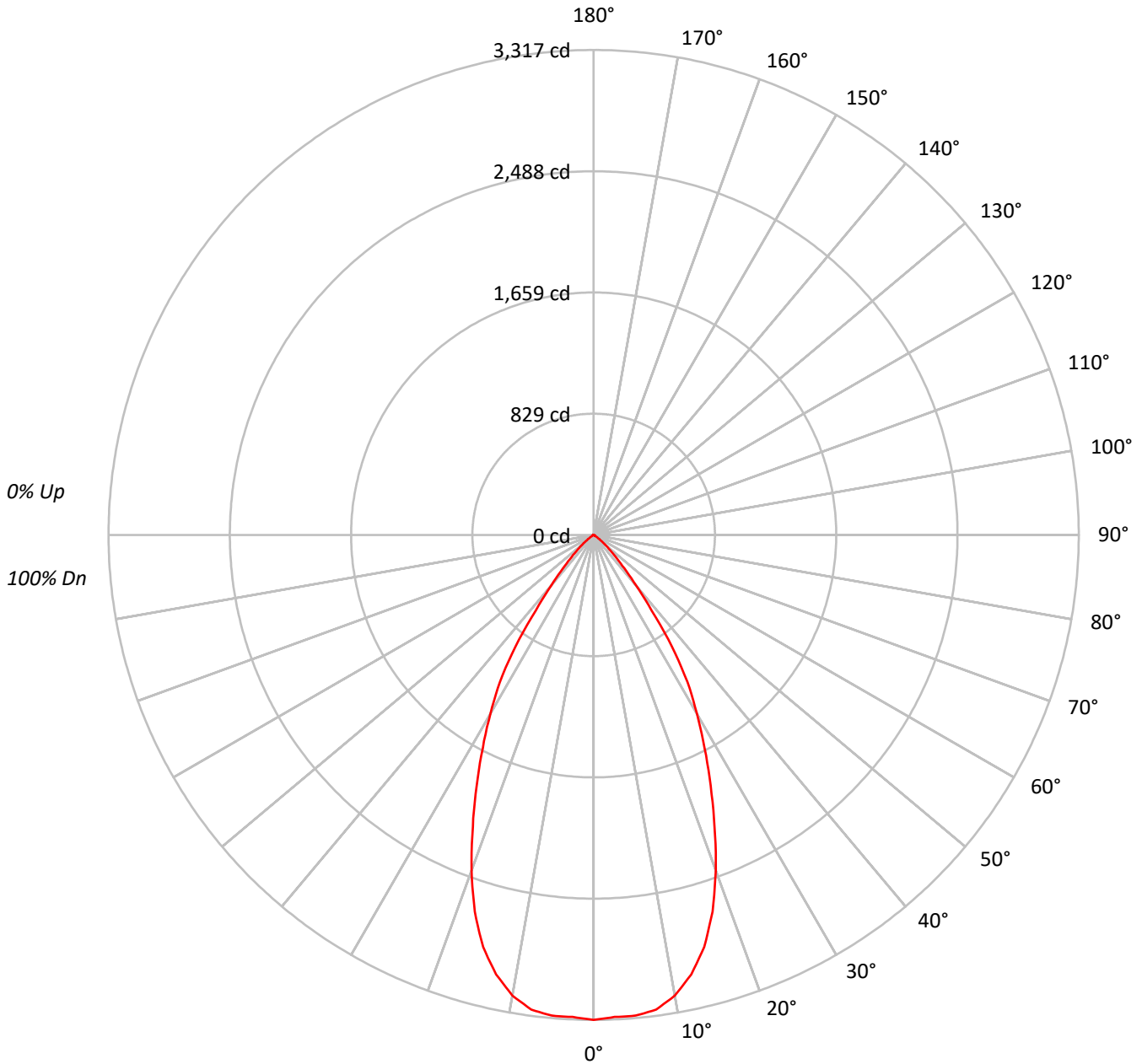
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58			
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	409187
5°	408657
10°	400682
15°	372581
20°	320423
25°	257414
30°	200979
35°	140699
40°	72216
45°	36667
50°	18364
55°	6860
60°	2763
65°	2189
70°	1334
75°	905
80°	1350
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.0	11.2
10°-20°	805.4	29.0
20°-30°	867.7	31.2
30°-40°	570.1	20.5
40°-50°	177.3	6.4
50°-60°	34.8	1.3
60°-70°	7.4	0.3
70°-80°	2.7	0.1
80°-90°	0.8	0.0
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°	1985.1	71.5
0°-40°	2555.2	92.0
0°-60°	2767.2	99.6
0°-90°	2778.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3317	
5°	3300	312
15°	2918	805
25°	1891	868
35°	934	570
45°	210	177
55°	32	35
65°	8	7
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3317.4
2.5°	3300.5
5°	3300.5
7.5°	3274.2
10°	3199.1
12.5°	3079.1
15°	2917.7
17.5°	2702.0
20°	2441.1
22.5°	2159.7
25°	1891.4
27.5°	1641.8
30°	1411.1
32.5°	1193.4
35°	934.4
37.5°	651.1
40°	448.5
42.5°	309.5
45°	210.2
47.5°	142.6
50°	95.7
52.5°	60.0
55°	31.9
57.5°	13.2
60°	11.2
62.5°	9.3
65°	7.5
67.5°	5.6
70°	3.7
72.5°	3.7
75°	1.9
77.5°	1.9
80°	1.9
82.5°	1.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)