

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: P580624

Luminaire Tested: **HC440D010-HM43040927-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC440D010-HM43040927-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3135.1 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

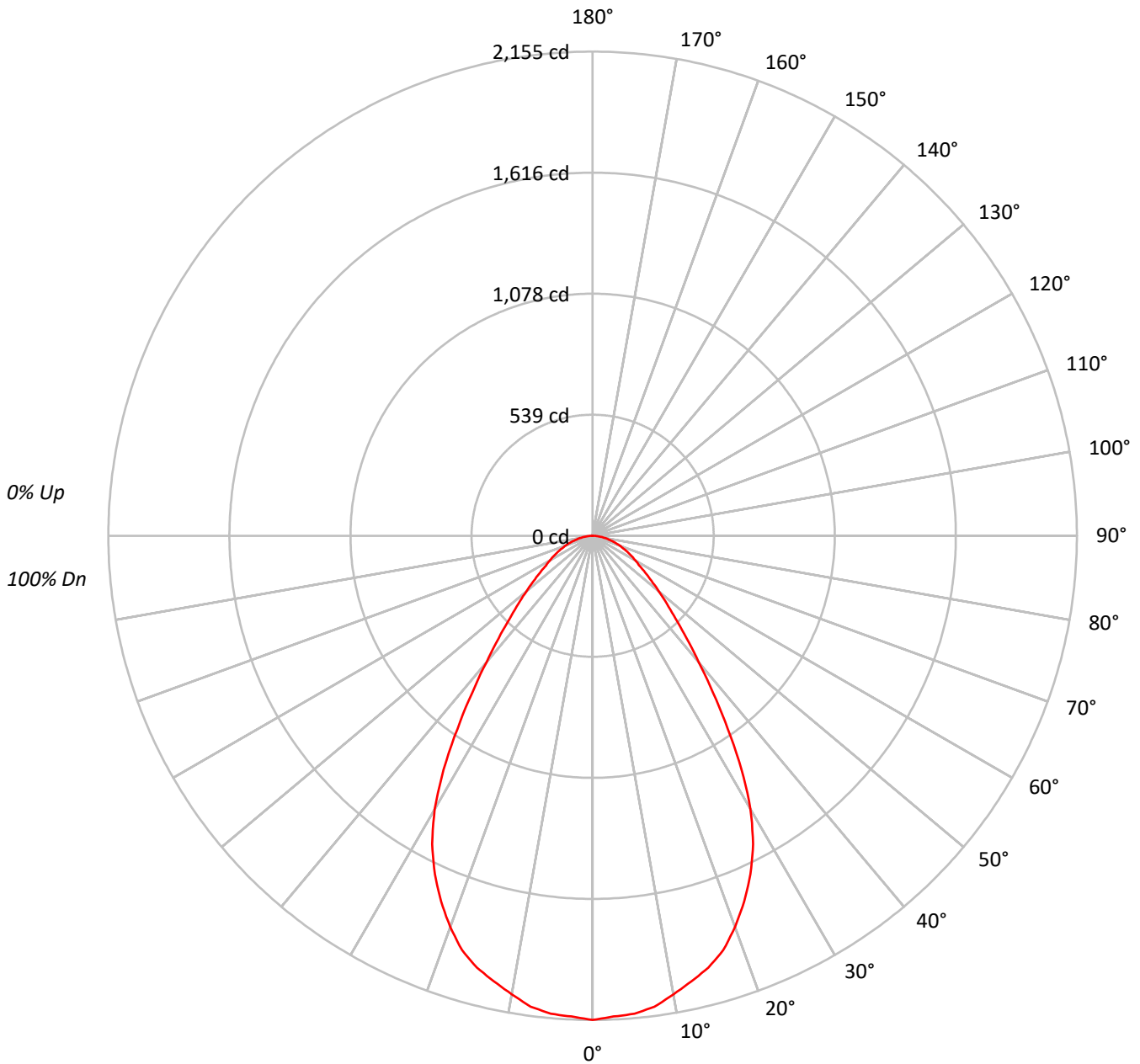
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	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	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	265797
5°	264386
10°	259552
15°	254091
20°	243215
25°	226166
30°	200167
35°	157971
40°	118234
45°	90951
50°	73782
55°	61181
60°	54124
65°	50083
70°	46198
75°	42415
80°	38570
85°	30711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	6.4
10°-20°	558.0	17.8
20°-30°	757.7	24.2
30°-40°	656.3	20.9
40°-50°	412.1	13.1
50°-60°	259.2	8.3
60°-70°	170.3	5.4
70°-80°	93.9	3.0
80°-90°	25.7	0.8
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°	1517.6	48.4
0°-40°	2173.9	69.3
0°-60°	2845.2	90.8
0°-90°	3135.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3135.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2155	
5°	2135	202
15°	1990	558
25°	1662	758
35°	1049	656
45°	521	412
55°	284	259
65°	172	170
75°	89	94
85°	22	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2154.9
2.5°	2141.8
5°	2135.3
7.5°	2113.6
10°	2072.3
12.5°	2031.0
15°	1989.8
17.5°	1933.3
20°	1852.9
22.5°	1761.7
25°	1661.8
27.5°	1546.6
30°	1405.4
32.5°	1233.9
35°	1049.1
37.5°	879.8
40°	734.3
42.5°	619.1
45°	521.4
47.5°	447.5
50°	384.5
52.5°	330.1
55°	284.5
57.5°	245.5
60°	219.4
62.5°	195.5
65°	171.6
67.5°	147.7
70°	128.1
72.5°	106.5
75°	89.0
77.5°	69.5
80°	54.3
82.5°	36.9
85°	21.7
87.5°	8.7
90°	0.0



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— 0°-180°







(END OF REPORT)