

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: P581159

Luminaire Tested: **HC455D010-HM44560835-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC455D010-HM44560835-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5263.8 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

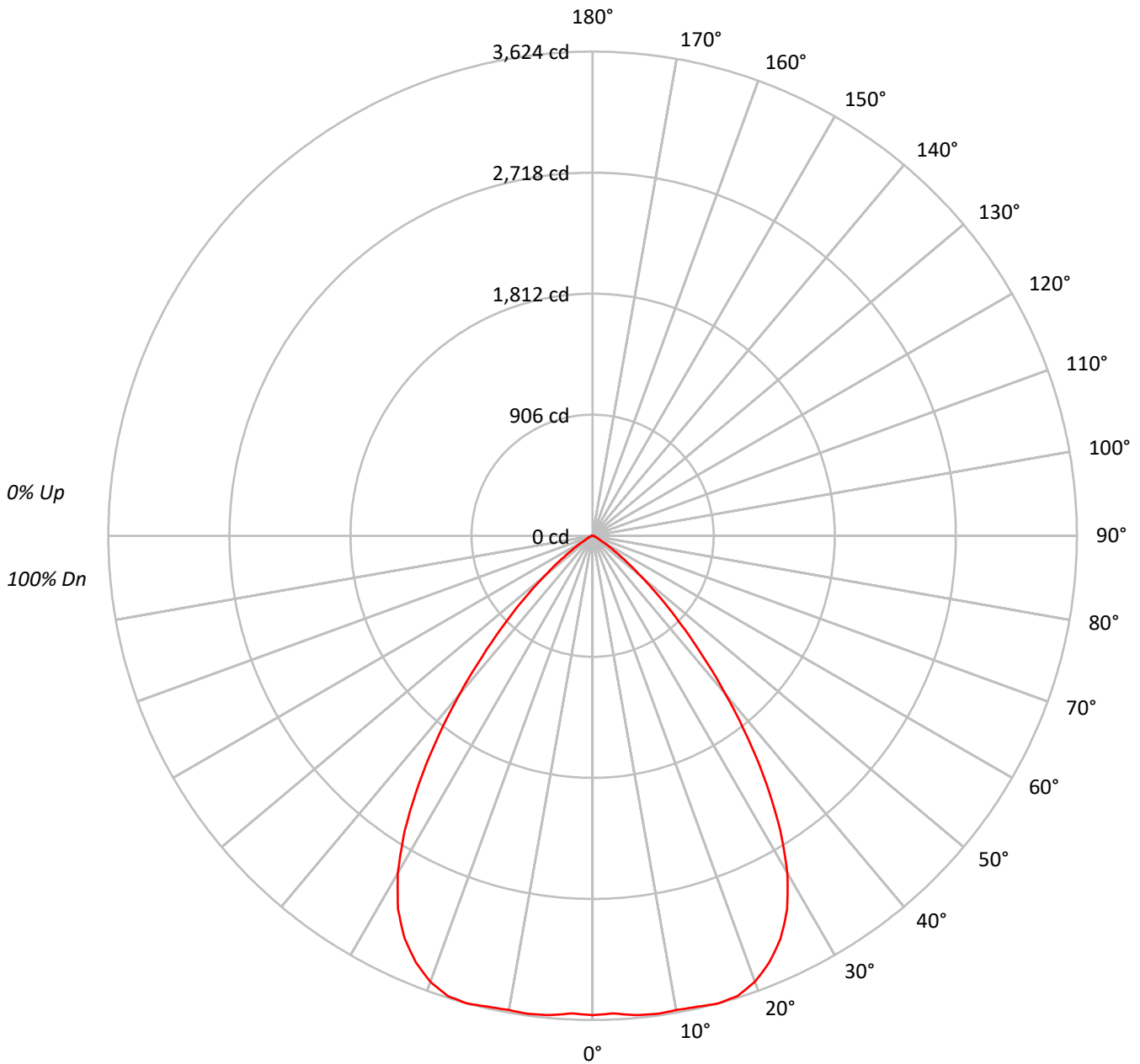
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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	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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92																											
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84																											
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76																											
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69																											
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63																											
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58																											
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53																											
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49																											
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45																											
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	442576
5°	445889
10°	451458
15°	462811
20°	466202
25°	452862
30°	415218
35°	341645
40°	249028
45°	161651
50°	91129
55°	43267
60°	17096
65°	10565
70°	7141
75°	4718
80°	2344
85°	4670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.9	6.5
10°-20°	1021.8	19.4
20°-30°	1515.5	28.8
30°-40°	1399.8	26.6
40°-50°	730.9	13.9
50°-60°	200.3	3.8
60°-70°	38.6	0.7
70°-80°	10.9	0.2
80°-90°	2.2	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°	2881.1	54.7
0°-40°	4280.9	81.3
0°-60°	5212.2	99.0
0°-90°	5263.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5263.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3588	
5°	3601	344
15°	3624	1022
25°	3328	1516
35°	2269	1400
45°	927	731
55°	201	200
65°	36	39
75°	10	11
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3588.1
2.5°	3578.2
5°	3601.2
7.5°	3611.1
10°	3604.5
12.5°	3611.1
15°	3624.3
17.5°	3611.1
20°	3551.7
22.5°	3456.1
25°	3327.5
27.5°	3152.7
30°	2915.3
32.5°	2615.2
35°	2268.9
37.5°	1906.2
40°	1546.6
42.5°	1216.9
45°	926.7
47.5°	679.4
50°	474.9
52.5°	316.6
55°	201.2
57.5°	118.7
60°	69.3
62.5°	49.5
65°	36.2
67.5°	26.4
70°	19.8
72.5°	13.2
75°	9.9
77.5°	6.6
80°	3.3
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)