

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: P581231

Luminaire Tested: **HC455D010-HM44560935-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581231
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-HM44560935-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4620.4 lumens
Efficiency: N/A
Efficacy: 88.9 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

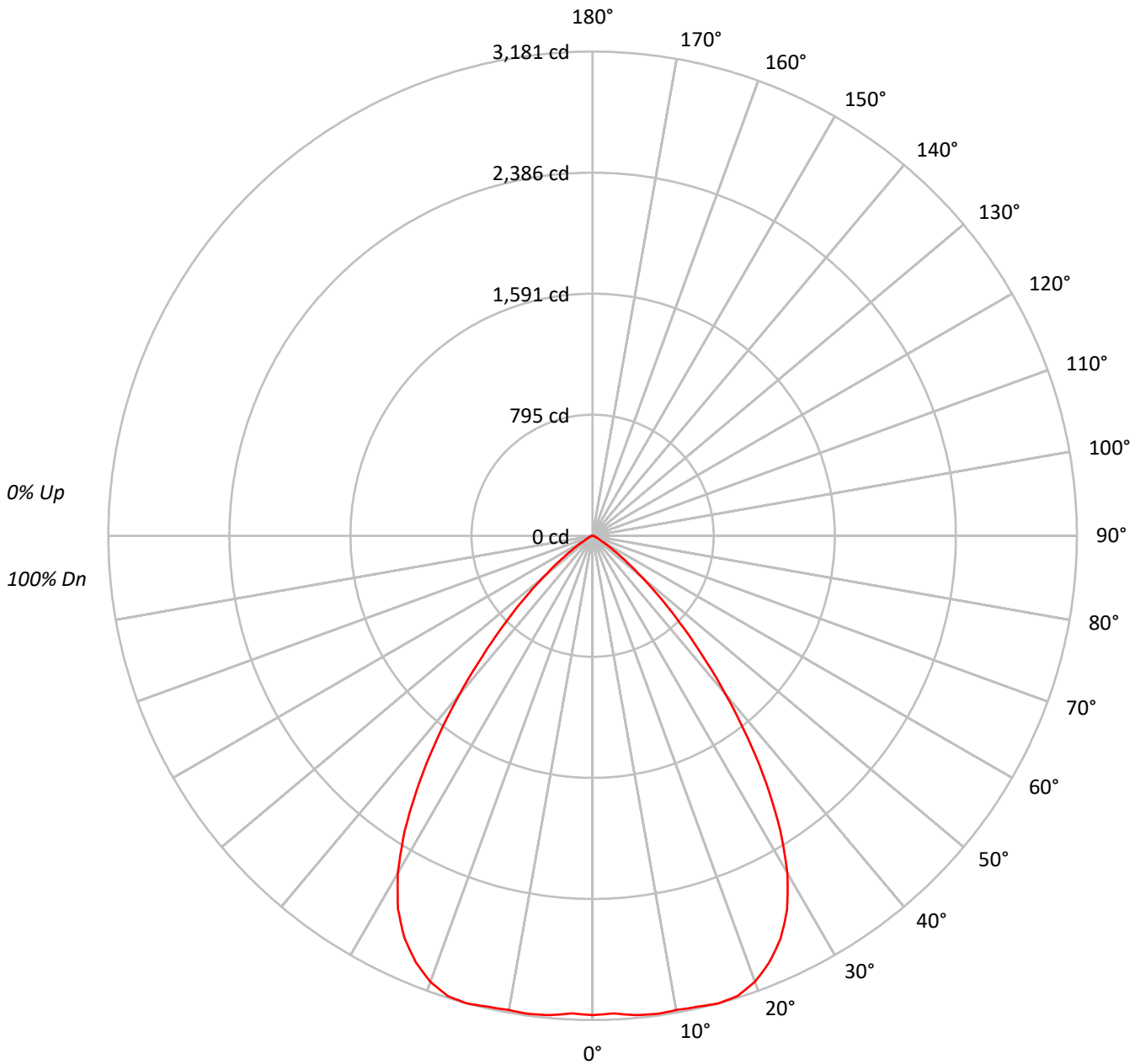
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	388465
5°	391385
10°	396286
15°	406242
20°	409221
25°	397498
30°	364457
35°	299890
40°	218596
45°	141887
50°	79980
55°	37977
60°	14999
65°	9281
70°	6239
75°	4146
80°	2060
85°	4104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.8	6.5
10°-20°	896.9	19.4
20°-30°	1330.3	28.8
30°-40°	1228.7	26.6
40°-50°	641.6	13.9
50°-60°	175.8	3.8
60°-70°	33.8	0.7
70°-80°	9.5	0.2
80°-90°	2.0	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°	2529.0	54.7
0°-40°	3757.7	81.3
0°-60°	4575.1	99.0
0°-90°	4620.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4620.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3149	
5°	3161	302
15°	3181	897
25°	2921	1330
35°	1992	1229
45°	813	642
55°	177	176
65°	32	34
75°	9	9
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3149.4
2.5°	3140.8
5°	3161.0
7.5°	3169.7
10°	3164.0
12.5°	3169.7
15°	3181.3
17.5°	3169.7
20°	3117.6
22.5°	3033.7
25°	2920.7
27.5°	2767.4
30°	2558.9
32.5°	2295.5
35°	1991.6
37.5°	1673.1
40°	1357.6
42.5°	1068.2
45°	813.4
47.5°	596.4
50°	416.8
52.5°	277.9
55°	176.6
57.5°	104.2
60°	60.8
62.5°	43.4
65°	31.8
67.5°	23.2
70°	17.3
72.5°	11.6
75°	8.7
77.5°	5.7
80°	2.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)