

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: P583121

Luminaire Tested: **HC655D010-HM64560940-61NDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560940-61NDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5091.6 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

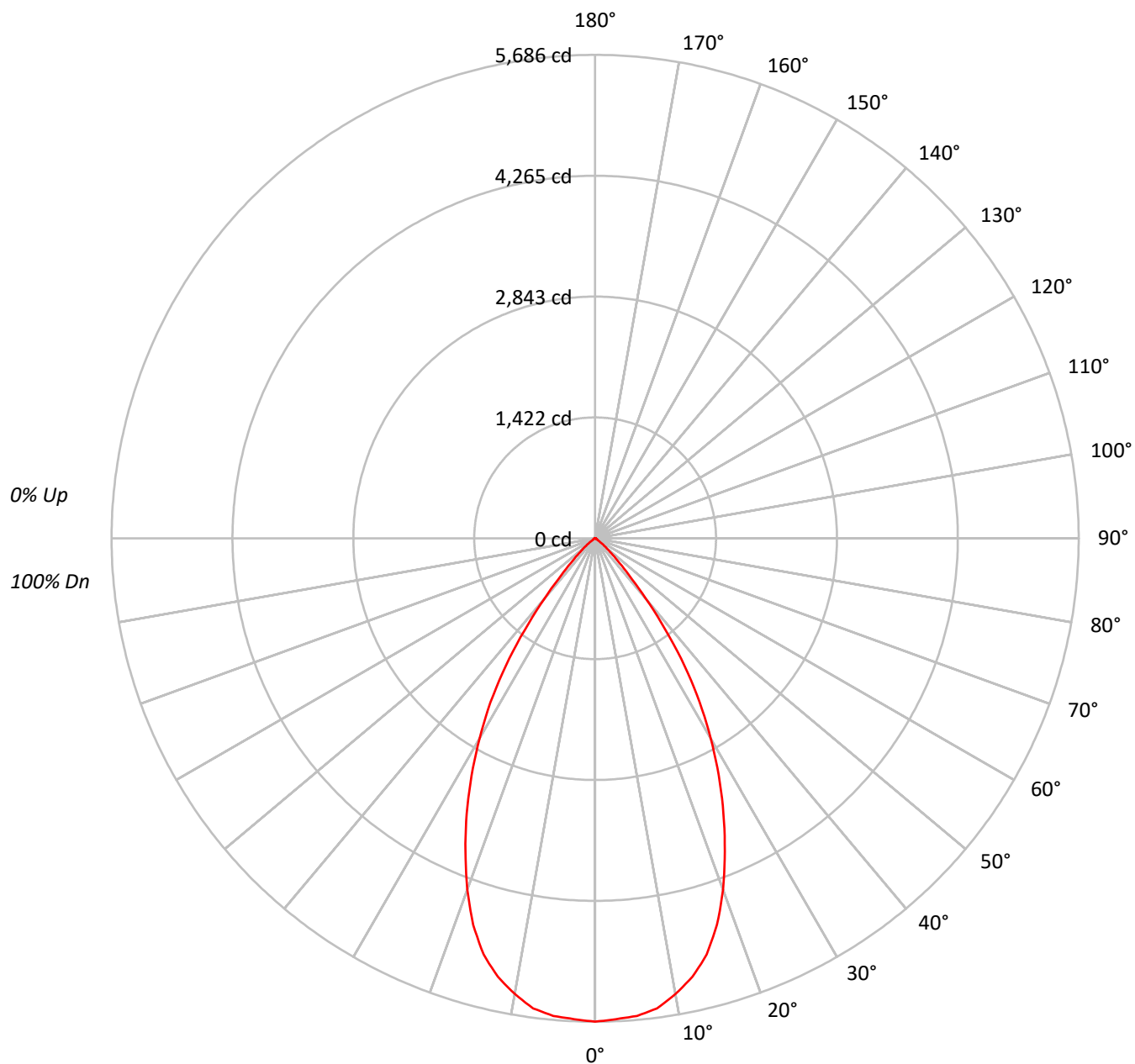
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	94	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	88	83	79	86	82	78		84	81	78		82
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	71	67		74
7	83	74	68	64	82	73	67	63	72	67	63		71	66	63		70
8	79	70	64	59	78	69	63	59	68	63	59		67	62	59		66
9	75	66	60	56	74	65	59	56	64	59	55		63	59	55		62
10	72	62	56	52	71	62	56	52	61	56	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	311680
5°	310367
10°	303017
15°	287641
20°	256386
25°	215970
30°	172071
35°	122764
40°	66017
45°	28274
50°	12861
55°	4693
60°	2313
65°	1829
70°	1683
75°	741
80°	1105
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.4	10.5
10°-20°	1404.9	27.6
20°-30°	1627.2	32.0
30°-40°	1125.1	22.1
40°-50°	324.9	6.4
50°-60°	55.9	1.1
60°-70°	14.3	0.3
70°-80°	5.5	0.1
80°-90°	1.4	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°	3564.4	70.0
0°-40°	4689.5	92.1
0°-60°	5070.3	99.6
0°-90°	5091.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5091.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5686	
5°	5640	532
15°	5068	1405
25°	3570	1627
35°	1834	1125
45°	365	325
55°	49	56
65°	14	14
75°	4	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5685.5
2.5°	5661.0
5°	5640.0
7.5°	5576.8
10°	5443.5
12.5°	5282.2
15°	5068.2
17.5°	4766.5
20°	4394.8
22.5°	3984.5
25°	3570.5
27.5°	3146.2
30°	2718.3
32.5°	2290.3
35°	1834.4
37.5°	1360.9
40°	922.5
42.5°	582.3
45°	364.7
47.5°	234.9
50°	150.8
52.5°	91.2
55°	49.1
57.5°	28.0
60°	21.1
62.5°	17.5
65°	14.1
67.5°	10.5
70°	10.5
72.5°	7.0
75°	3.5
77.5°	3.5
80°	3.5
82.5°	3.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)