

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: P583123

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC655D010-HM64560940-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4965.3 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

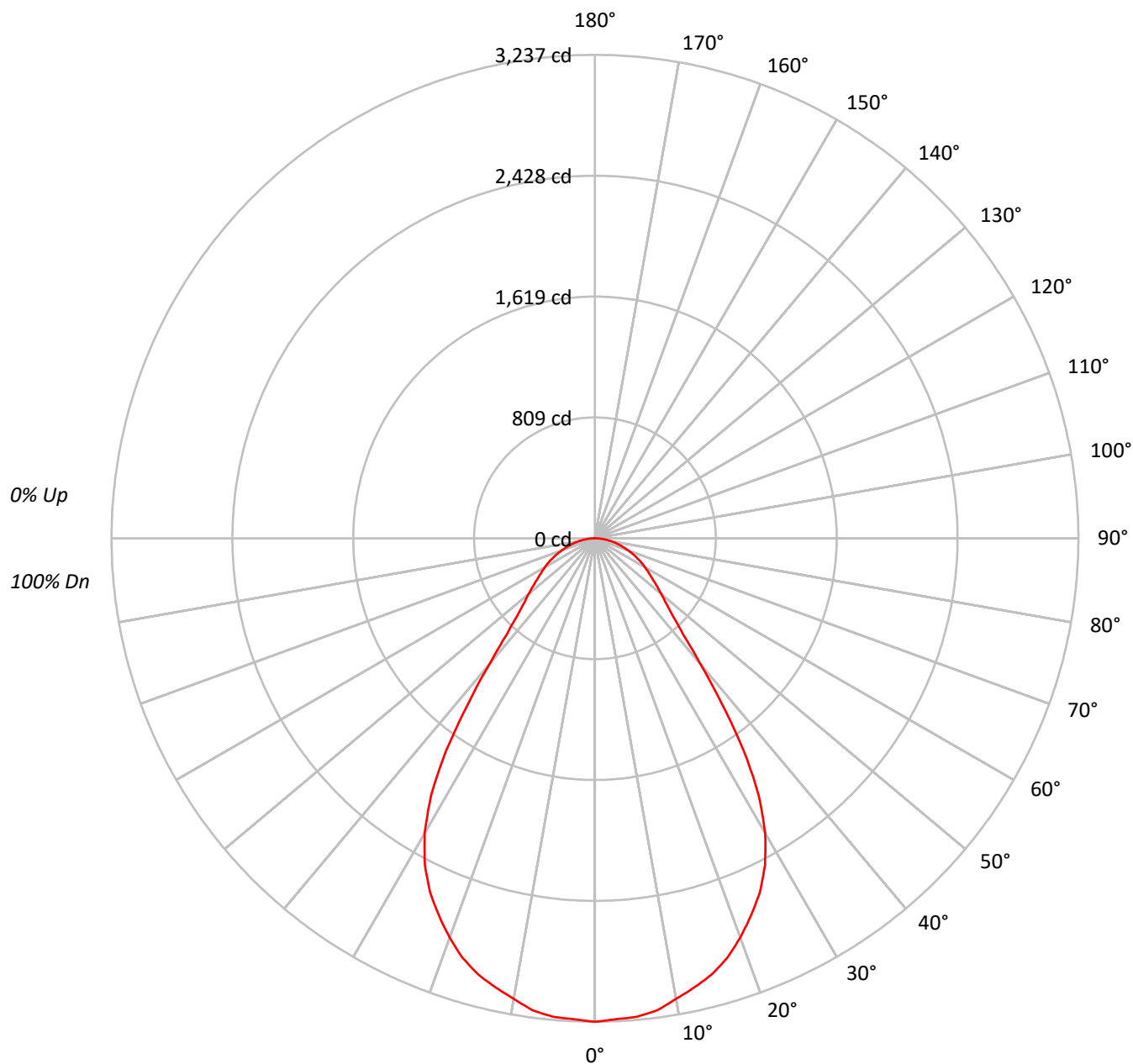
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	103	96	91	86	101	95	90	85		91	87	83			88	85	82			85
3	96	87	81	75	94	86	80	75		83	78	73			80	76	72			78
4	89	80	72	67	87	78	72	66		76	70	65			74	69	65			72
5	84	73	65	60	82	72	65	59		70	64	59			68	63	58			66
6	78	67	59	54	77	66	59	54		64	58	53			63	57	53			61
7	73	62	54	49	72	61	54	49		60	53	49			58	53	48			57
8	69	57	50	45	68	57	50	45		56	49	45			54	49	44			53
9	65	53	46	41	64	53	46	41		52	46	41			51	45	41			50
10	62	50	43	38	60	49	43	38		49	42	38			48	42	38			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	177475
5°	176992
10°	174351
15°	171590
20°	165944
25°	158053
30°	144320
35°	116192
40°	78311
45°	57099
50°	49354
55°	44586
60°	42299
65°	40030
70°	37651
75°	35647
80°	33211
85°	30883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	6.1
10°-20°	849.0	17.1
20°-30°	1192.9	24.0
30°-40°	1061.9	21.4
40°-50°	593.4	12.0
50°-60°	422.7	8.5
60°-70°	307.6	6.2
70°-80°	178.0	3.6
80°-90°	55.3	1.1
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°	2346.3	47.3
0°-40°	3408.2	68.6
0°-60°	4424.3	89.1
0°-90°	4965.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4965.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3237	
5°	3216	304
15°	3023	849
25°	2613	1193
35°	1736	1062
45°	736	593
55°	466	423
65°	309	308
75°	168	178
85°	49	55
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3237.4
2.5°	3223.3
5°	3216.3
7.5°	3188.3
10°	3132.1
12.5°	3079.6
15°	3023.4
17.5°	2946.3
20°	2844.5
22.5°	2732.3
25°	2613.0
27.5°	2465.7
30°	2279.9
32.5°	2041.4
35°	1736.2
37.5°	1392.5
40°	1094.3
42.5°	873.4
45°	736.5
47.5°	645.3
50°	578.7
52.5°	519.1
55°	466.5
57.5°	424.3
60°	385.8
62.5°	350.8
65°	308.6
67.5°	273.6
70°	234.9
72.5°	199.9
75°	168.3
77.5°	136.8
80°	105.2
82.5°	77.1
85°	49.1
87.5°	24.6
90°	0.0



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— 0°-180°







(END OF REPORT)