

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: P582691

Luminaire Tested: **HC645D010-HM64560940-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582691
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: HC645D010-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: 4479.4 lumens
Efficiency: N/A
Efficacy: 101.8 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

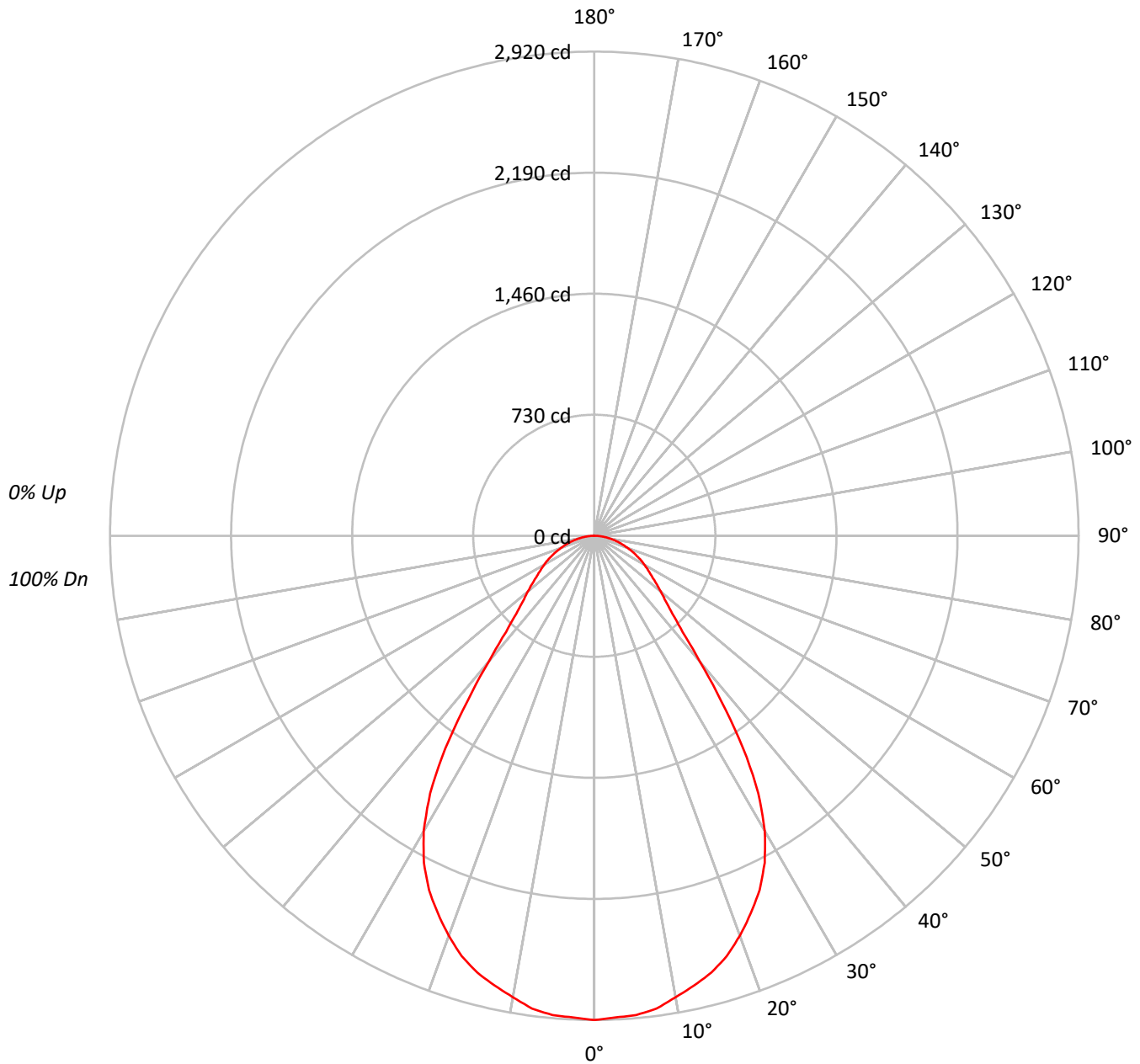
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	160102
5°	159668
10°	157284
15°	154797
20°	149708
25°	142587
30°	130191
35°	104822
40°	70647
45°	51517
50°	44527
55°	40228
60°	38155
65°	36126
70°	33980
75°	32174
80°	29960
85°	27864



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.6	6.1
10°-20°	765.9	17.1
20°-30°	1076.1	24.0
30°-40°	957.9	21.4
40°-50°	535.3	12.0
50°-60°	381.4	8.5
60°-70°	277.5	6.2
70°-80°	160.7	3.6
80°-90°	49.9	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°	2116.7	47.3
0°-40°	3074.6	68.6
0°-60°	3991.3	89.1
0°-90°	4479.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4479.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2920	
5°	2902	275
15°	2728	766
25°	2357	1076
35°	1566	958
45°	664	535
55°	421	381
65°	278	277
75°	152	161
85°	44	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2920.5
2.5°	2907.9
5°	2901.5
7.5°	2876.2
10°	2825.5
12.5°	2778.1
15°	2727.5
17.5°	2657.9
20°	2566.2
22.5°	2464.8
25°	2357.3
27.5°	2224.4
30°	2056.7
32.5°	1841.5
35°	1566.3
37.5°	1256.2
40°	987.2
42.5°	787.9
45°	664.5
47.5°	582.2
50°	522.1
52.5°	468.3
55°	420.9
57.5°	382.9
60°	348.0
62.5°	316.4
65°	278.5
67.5°	246.8
70°	212.0
72.5°	180.4
75°	151.9
77.5°	123.4
80°	94.9
82.5°	69.6
85°	44.3
87.5°	22.2
90°	0.0



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— 0°-180°







(END OF REPORT)