

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: P582529

Luminaire Tested: **HC640D010-HM63040935-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582529
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: HC640D010-HM63040935-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3977.1 lumens
Efficiency: N/A
Efficacy: 97.0 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

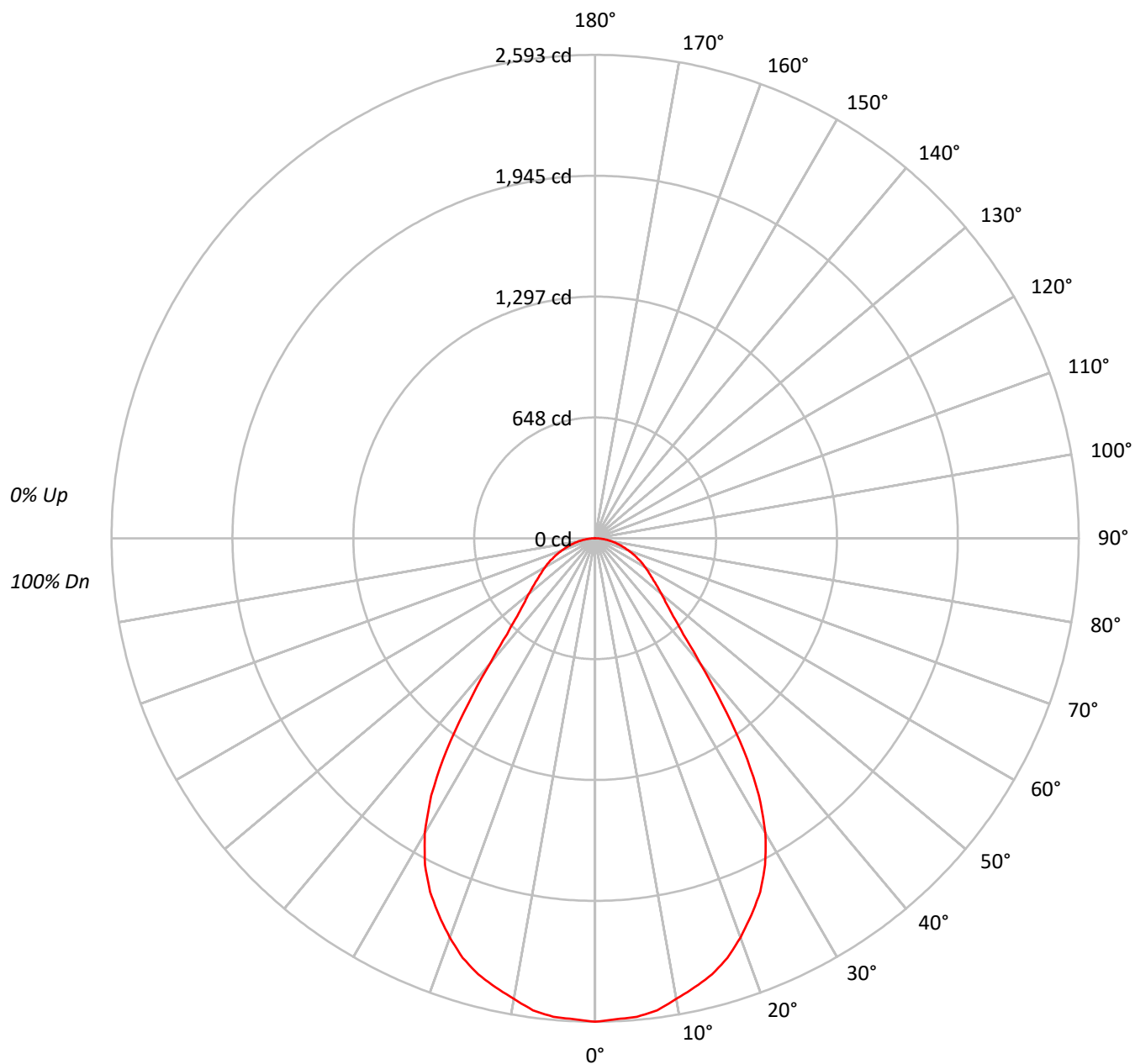
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	142149
5°	141773
10°	139649
15°	137441
20°	132918
25°	126600
30°	115600
35°	93063
40°	62725
45°	45741
50°	39530
55°	35717
60°	33879
65°	32066
70°	30165
75°	28552
80°	26613
85°	24719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	6.1
10°-20°	680.1	17.1
20°-30°	955.5	24.0
30°-40°	850.5	21.4
40°-50°	475.3	12.0
50°-60°	338.6	8.5
60°-70°	246.3	6.2
70°-80°	142.6	3.6
80°-90°	44.4	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°	1879.4	47.3
0°-40°	2729.9	68.6
0°-60°	3543.8	89.1
0°-90°	3977.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3977.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2593	
5°	2576	244
15°	2422	680
25°	2093	955
35°	1391	850
45°	590	475
55°	374	339
65°	247	246
75°	135	143
85°	39	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2593.0
2.5°	2581.8
5°	2576.3
7.5°	2553.7
10°	2508.7
12.5°	2466.7
15°	2421.7
17.5°	2360.0
20°	2278.4
22.5°	2188.5
25°	2093.0
27.5°	1974.9
30°	1826.2
32.5°	1635.0
35°	1390.6
37.5°	1115.3
40°	876.5
42.5°	699.6
45°	590.0
47.5°	516.9
50°	463.5
52.5°	415.7
55°	373.7
57.5°	339.9
60°	309.0
62.5°	280.9
65°	247.2
67.5°	219.1
70°	188.2
72.5°	160.1
75°	134.8
77.5°	109.6
80°	84.3
82.5°	61.9
85°	39.3
87.5°	19.7
90°	0.0



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— 0°-180°







(END OF REPORT)