

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: P582491

Luminaire Tested: **HC640D010-HM63040927-61NDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582491
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: HC640D010-HM63040927-61NDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3462.8 lumens
Efficiency: N/A
Efficacy: 84.5 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

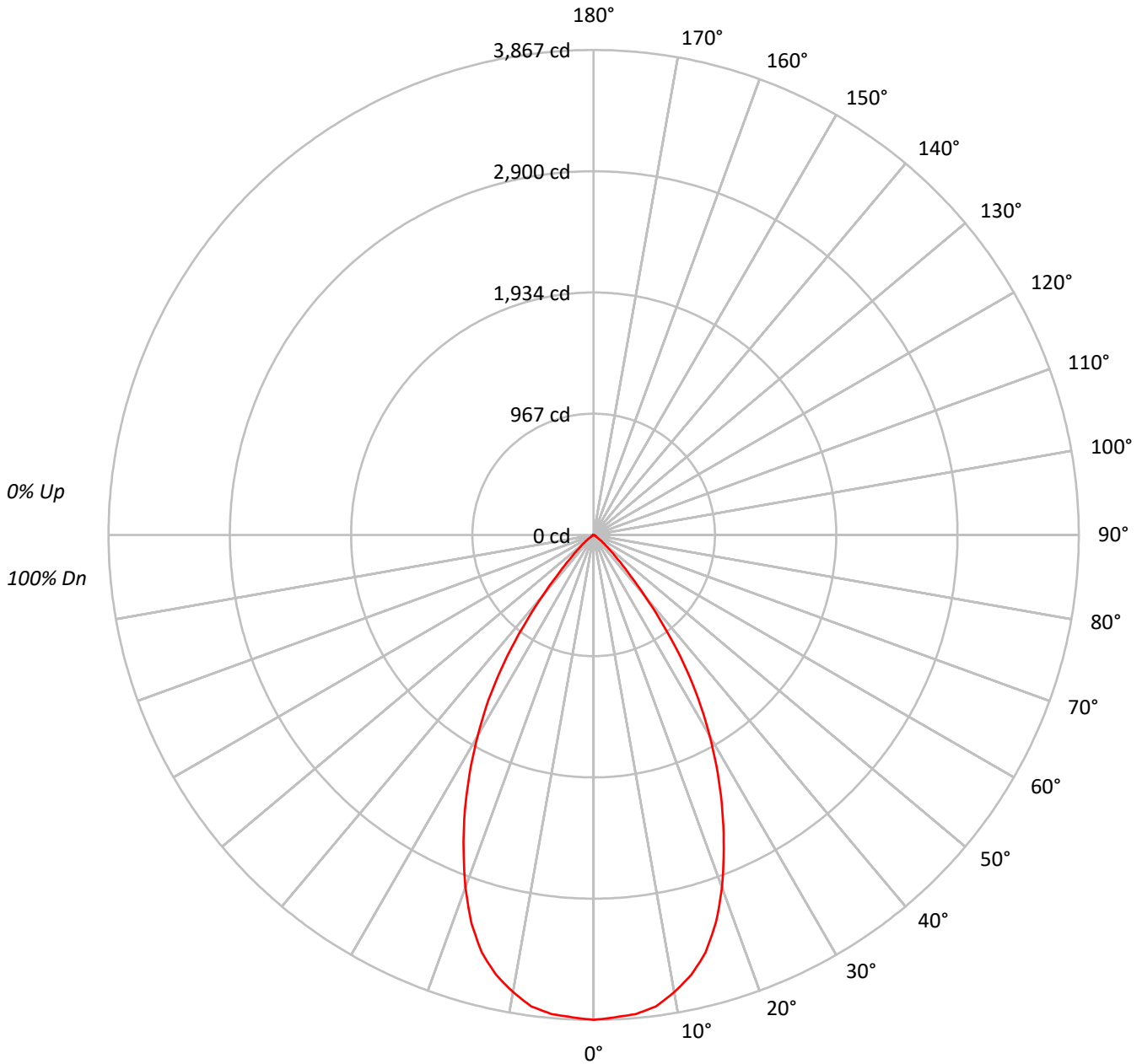
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			0	
RW	70	50	30	10	70	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	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	66	62	61			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	211979
5°	211082
10°	206086
15°	195625
20°	174368
25°	146881
30°	117024
35°	83487
40°	44891
45°	19235
50°	8750
55°	3192
60°	1579
65°	1232
70°	1138
75°	508
80°	758
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.1	10.5
10°-20°	955.4	27.6
20°-30°	1106.6	32.0
30°-40°	765.2	22.1
40°-50°	221.0	6.4
50°-60°	38.0	1.1
60°-70°	9.7	0.3
70°-80°	3.8	0.1
80°-90°	1.0	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°	2424.2	70.0
0°-40°	3189.3	92.1
0°-60°	3448.3	99.6
0°-90°	3462.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3462.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3867	
5°	3836	362
15°	3447	955
25°	2428	1107
35°	1248	765
45°	248	221
55°	33	38
65°	10	10
75°	2	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3866.8
2.5°	3850.0
5°	3835.8
7.5°	3792.8
10°	3702.2
12.5°	3592.4
15°	3446.9
17.5°	3241.7
20°	2988.9
22.5°	2709.8
25°	2428.3
27.5°	2139.7
30°	1848.7
32.5°	1557.6
35°	1247.5
37.5°	925.5
40°	627.3
42.5°	396.0
45°	248.1
47.5°	159.9
50°	102.6
52.5°	62.0
55°	33.4
57.5°	19.1
60°	14.4
62.5°	11.9
65°	9.5
67.5°	7.1
70°	7.1
72.5°	4.7
75°	2.4
77.5°	2.4
80°	2.4
82.5°	2.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)