

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: P580626

Luminaire Tested: **HC440D010-HM43040927-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC440D010-HM43040927-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3069.9 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

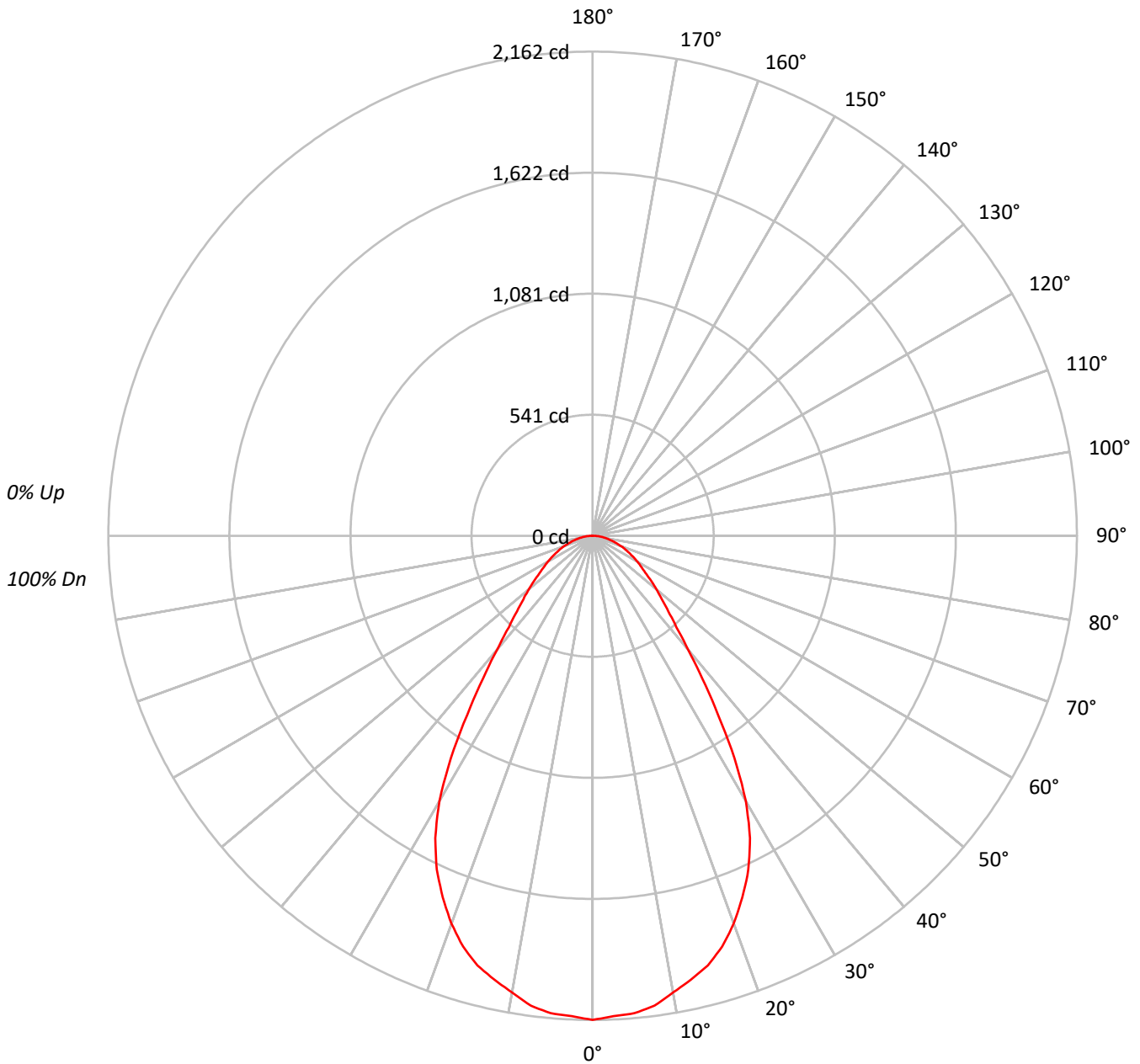
Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	266649
5°	264993
10°	259352
15°	253619
20°	241889
25°	223920
30°	194769
35°	147069
40°	106609
45°	83294
50°	71230
55°	61611
60°	56739
65°	51951
70°	48506
75°	44512
80°	41625
85°	39910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	6.6
10°-20°	556.3	18.1
20°-30°	748.1	24.4
30°-40°	615.1	20.0
40°-50°	377.7	12.3
50°-60°	261.4	8.5
60°-70°	178.2	5.8
70°-80°	99.3	3.2
80°-90°	31.6	1.0
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°	1506.5	49.1
0°-40°	2121.7	69.1
0°-60°	2760.8	89.9
0°-90°	3069.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3069.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2162	
5°	2140	202
15°	1986	556
25°	1645	748
35°	977	615
45°	478	378
55°	286	261
65°	178	178
75°	93	99
85°	28	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2161.8
2.5°	2146.7
5°	2140.2
7.5°	2116.3
10°	2070.7
12.5°	2029.5
15°	1986.1
17.5°	1923.1
20°	1842.8
22.5°	1747.3
25°	1645.3
27.5°	1521.5
30°	1367.5
32.5°	1178.6
35°	976.7
37.5°	803.1
40°	662.1
42.5°	553.4
45°	477.5
47.5°	418.9
50°	371.2
52.5°	327.8
55°	286.5
57.5°	256.1
60°	230.0
62.5°	204.0
65°	178.0
67.5°	156.3
70°	134.5
72.5°	112.9
75°	93.4
77.5°	73.8
80°	58.6
82.5°	43.4
85°	28.2
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)