

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: P583330

Luminaire Tested: **HC607D010-HM60525835-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC607D010-HM60525835-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 888.6 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

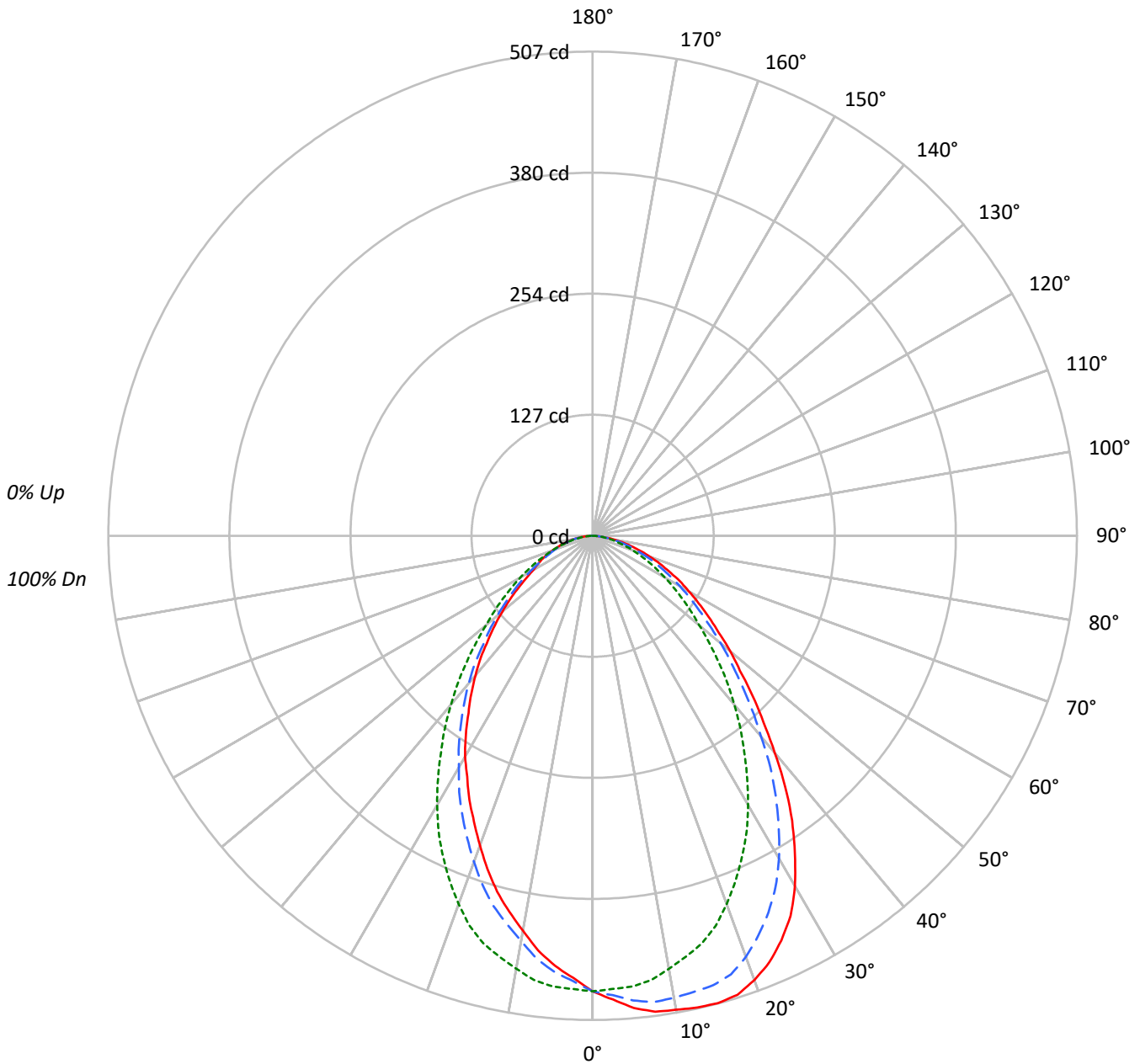
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66																			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42																			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38																			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34																			
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26149	26149	26149
5°	27311	26073	24873
10°	28056	25623	23374
15°	28752	25074	21901
20°	28878	23936	20115
25°	28272	22411	18449
30°	26821	20604	16901
35°	24360	18518	15165
40°	21225	16495	13647
45°	18366	14436	12001
50°	16042	12426	10516
55°	14174	10924	9022
60°	12740	9583	7817
65°	11402	8328	7588
70°	10194	7101	7101
75°	8832	5973	6672
80°	7072	5083	6093
85°	4843	4403	5284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	5.0
10°-20°	124.6	14.0
20°-30°	173.7	19.5
30°-40°	179.0	20.1
40°-50°	148.3	16.7
50°-60°	106.6	12.0
60°-70°	67.9	7.6
70°-80°	34.9	3.9
80°-90°	8.9	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°	343.1	38.6
0°-40°	522.1	58.8
0°-60°	777.0	87.4
0°-90°	888.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	888.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	477	477	477	477	477	
5°	496	488	474	458	452	48
15°	507	487	442	401	386	143
25°	467	435	370	323	305	214
35°	364	334	277	240	227	226
45°	237	220	186	162	155	183
55°	148	136	114	101	94	134
65°	88	78	64	56	58	88
75°	42	36	28	30	32	44
85°	8	7	7	8	8	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0
2.5°	486.1	484.1	481.5	478.9	475.1	470.6	466.8	465.4	463.5
5°	496.3	493.8	488.5	482.2	473.8	465.4	458.4	453.9	452.0
7.5°	502.7	499.5	492.4	481.5	469.3	457.2	446.9	440.4	437.9
10°	504.0	500.8	491.2	476.4	460.3	443.7	430.8	423.1	419.9
12.5°	505.9	501.5	489.2	471.9	451.4	432.1	416.0	406.4	403.2
15°	506.6	501.5	487.3	466.1	441.8	418.6	401.3	389.8	385.9
17.5°	504.0	498.2	481.5	455.8	428.3	403.8	383.3	371.1	366.0
20°	495.0	488.5	469.3	440.4	410.3	384.5	363.4	350.6	344.8
22.5°	483.5	475.1	453.3	422.5	391.0	364.0	342.8	330.0	324.3
25°	467.4	459.7	435.3	402.6	370.5	342.2	322.9	309.4	305.0
27.5°	448.8	439.8	414.8	382.0	349.3	321.0	302.4	290.2	284.4
30°	423.7	415.4	390.3	357.6	325.5	299.2	280.0	269.7	267.0
32.5°	394.2	387.1	362.8	332.0	301.2	276.7	260.7	249.7	247.2
35°	364.0	355.6	334.5	305.6	276.7	254.9	240.1	230.5	226.6
37.5°	331.3	323.6	305.6	280.0	254.2	233.7	220.8	212.6	208.7
40°	296.6	290.8	274.2	253.6	230.5	212.6	201.6	194.5	190.7
42.5°	264.6	258.8	247.2	228.0	208.7	192.6	183.0	176.5	173.3
45°	236.9	231.8	220.3	203.5	186.2	172.7	162.5	157.9	154.8
47.5°	209.3	206.8	196.5	181.1	165.0	153.4	146.4	141.3	138.7
50°	188.1	184.9	175.3	159.2	145.7	136.8	130.3	125.9	123.3
52.5°	166.3	163.0	154.1	140.6	129.7	121.3	114.9	111.0	108.5
55°	148.3	145.7	136.1	124.0	114.3	107.2	101.4	97.0	94.4
57.5°	131.7	129.0	120.1	108.5	100.2	93.7	88.6	84.7	81.6
60°	116.2	114.3	105.3	94.4	87.4	80.9	76.4	73.2	71.3
62.5°	102.8	98.9	91.2	81.6	75.1	70.0	65.5	63.6	64.8
65°	87.9	86.0	78.3	70.0	64.2	59.0	55.9	57.1	58.5
67.5°	75.8	73.2	66.7	59.0	53.9	50.1	48.2	50.8	51.3
70°	63.6	61.0	55.2	48.8	44.3	41.7	41.7	43.6	44.3
72.5°	52.0	50.1	45.0	39.8	36.6	34.7	35.9	37.3	37.8
75°	41.7	39.8	35.9	31.5	28.2	28.2	29.6	30.8	31.5
77.5°	32.1	30.8	27.0	23.8	22.4	22.4	23.8	24.4	25.0
80°	22.4	21.2	19.3	17.3	16.1	17.3	18.6	18.6	19.3
82.5°	14.7	14.2	12.8	11.6	11.6	12.2	12.8	13.5	13.5
85°	7.7	7.7	7.0	6.5	7.0	7.7	7.7	8.4	8.4
87.5°	2.6	2.6	2.6	2.6	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)