

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: P583322

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC607D010-HM60525835-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 956.7 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

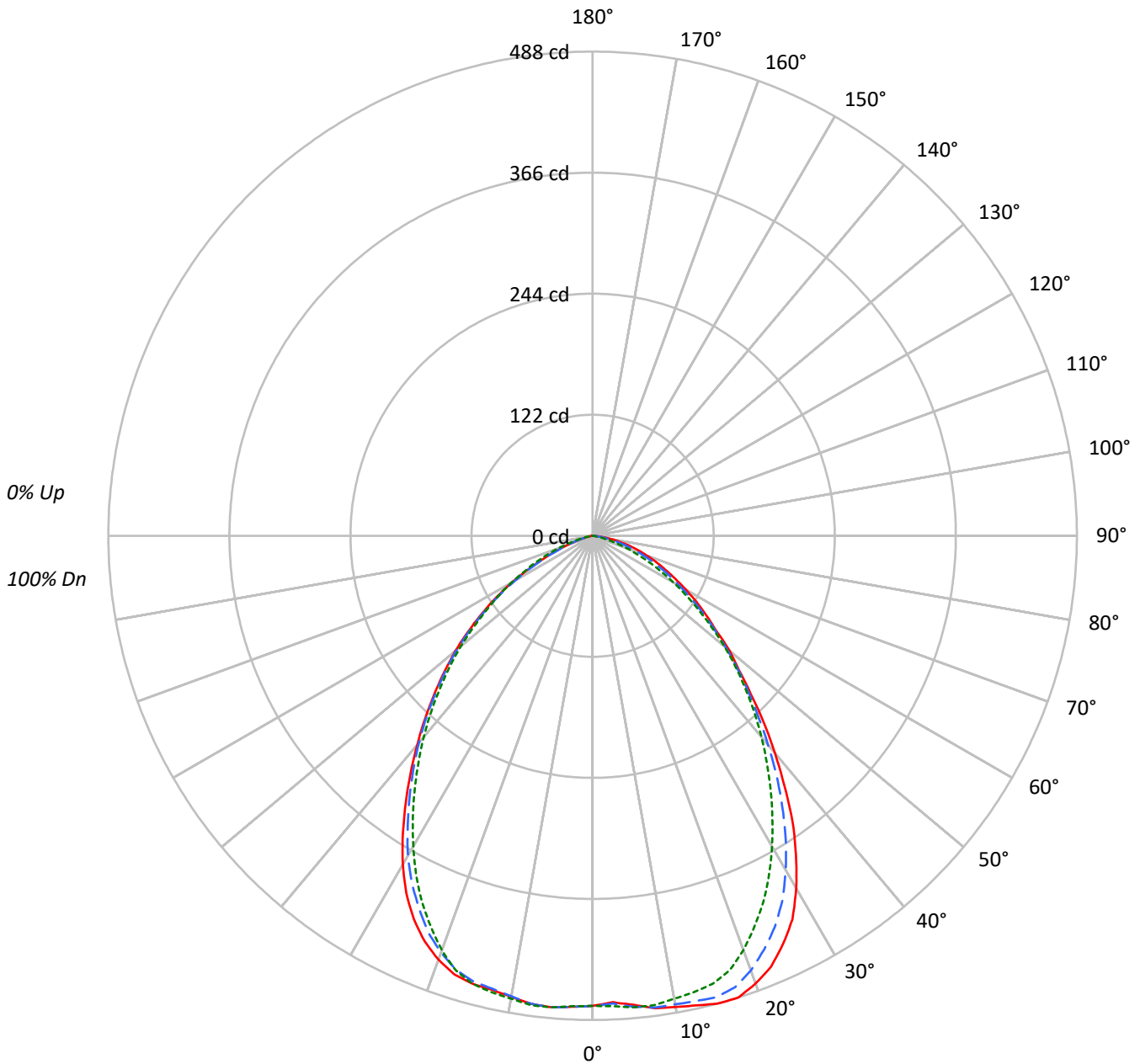
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68																			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25974	25974	25974
5°	26112	26255	26255
10°	26842	26374	26269
15°	27696	26533	26533
20°	28020	25926	26521
25°	27461	24624	25786
30°	25972	22883	24225
35°	23503	20927	21957
40°	20445	18935	19673
45°	17475	16870	17475
50°	15334	14780	15385
55°	13371	12454	12951
60°	11830	10350	10208
65°	10494	8159	6992
70°	9264	5754	4215
75°	7900	3262	2033
80°	5872	1010	600
85°	3208	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	4.8
10°-20°	133.0	13.9
20°-30°	194.2	20.3
30°-40°	203.7	21.3
40°-50°	171.6	17.9
50°-60°	120.2	12.6
60°-70°	64.5	6.7
70°-80°	21.6	2.3
80°-90°	2.4	0.2
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°	372.7	39.0
0°-40°	576.4	60.2
0°-60°	868.2	90.8
0°-90°	956.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	474	474	474	474	474	
5°	474	476	477	477	477	46
15°	488	482	468	465	468	138
25°	454	435	407	414	426	208
35°	351	333	313	322	328	218
45°	225	222	218	223	225	176
55°	140	136	130	133	136	126
65°	81	74	63	52	54	81
75°	37	29	15	10	10	40
85°	5	3	1	1	1	7
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°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	470.6	470.6	471.9	473.3	474.5	474.5	475.2	475.7	475.2
5°	474.5	474.5	476.4	477.1	477.1	476.4	477.1	477.1	477.1
7.5°	480.3	479.0	479.6	478.4	477.1	476.4	475.7	475.7	475.7
10°	482.2	481.0	479.6	477.1	473.8	471.9	471.3	471.9	471.9
12.5°	484.8	483.5	480.3	475.2	471.3	468.0	467.5	468.7	468.7
15°	488.0	486.7	481.5	473.3	467.5	464.2	464.9	466.1	467.5
17.5°	488.0	485.4	477.1	466.1	459.1	455.9	458.4	461.7	463.6
20°	480.3	477.7	466.1	452.6	444.4	442.4	446.9	452.6	454.6
22.5°	470.0	464.9	451.4	435.3	426.3	426.3	432.8	439.8	442.4
25°	454.0	450.1	434.7	416.0	407.1	406.4	414.1	423.7	426.3
27.5°	436.0	430.9	414.1	394.9	385.2	385.9	394.3	403.9	406.4
30°	410.3	403.9	389.1	370.5	361.5	364.0	372.4	379.4	382.7
32.5°	381.4	375.6	362.1	344.8	337.1	339.7	346.7	353.2	355.8
35°	351.2	344.8	333.2	317.8	312.7	315.3	321.7	326.9	328.1
37.5°	317.2	312.7	304.3	292.2	288.3	291.5	296.6	299.9	301.2
40°	285.7	281.9	274.9	265.8	264.6	267.2	272.3	274.2	274.9
42.5°	254.9	251.8	247.2	240.8	240.8	243.4	247.9	249.1	249.8
45°	225.4	223.4	221.5	216.4	217.6	220.8	223.4	225.4	225.4
47.5°	199.6	200.3	197.7	193.9	195.2	198.4	200.3	202.2	202.2
50°	179.8	177.9	175.3	171.4	173.3	176.0	178.4	179.8	180.4
52.5°	156.7	156.0	154.1	149.6	150.9	152.2	154.8	156.7	157.3
55°	139.9	138.0	135.5	130.3	130.3	131.7	132.9	134.1	135.5
57.5°	124.0	122.0	118.2	112.4	111.7	111.7	111.0	112.4	114.3
60°	107.9	107.2	101.4	96.3	94.4	92.5	89.8	90.5	93.1
62.5°	93.7	92.5	87.4	80.9	77.0	73.9	70.6	70.0	72.5
65°	80.9	79.6	73.9	67.4	62.9	57.1	52.0	52.0	53.9
67.5°	69.3	66.7	61.6	54.6	48.8	41.7	36.6	37.8	38.5
70°	57.8	55.9	50.1	43.1	35.9	28.9	25.7	26.3	26.3
72.5°	47.5	45.0	39.2	32.1	25.0	18.6	17.3	16.7	16.7
75°	37.3	34.7	28.9	21.9	15.4	10.9	9.6	9.6	9.6
77.5°	27.0	25.0	19.9	13.5	8.4	5.1	4.5	3.9	3.9
80°	18.6	16.7	12.2	7.0	3.2	1.9	1.9	1.9	1.9
82.5°	10.9	9.0	5.8	3.2	1.2	0.7	0.7	0.7	0.7
85°	5.1	3.9	2.6	1.2	0.7	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
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)