

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: P593029

Luminaire Tested: **HC607D010-HM60525850-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593029
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-HM60525850-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 987.5 lumens
Efficiency: N/A
Efficacy: 123.4 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

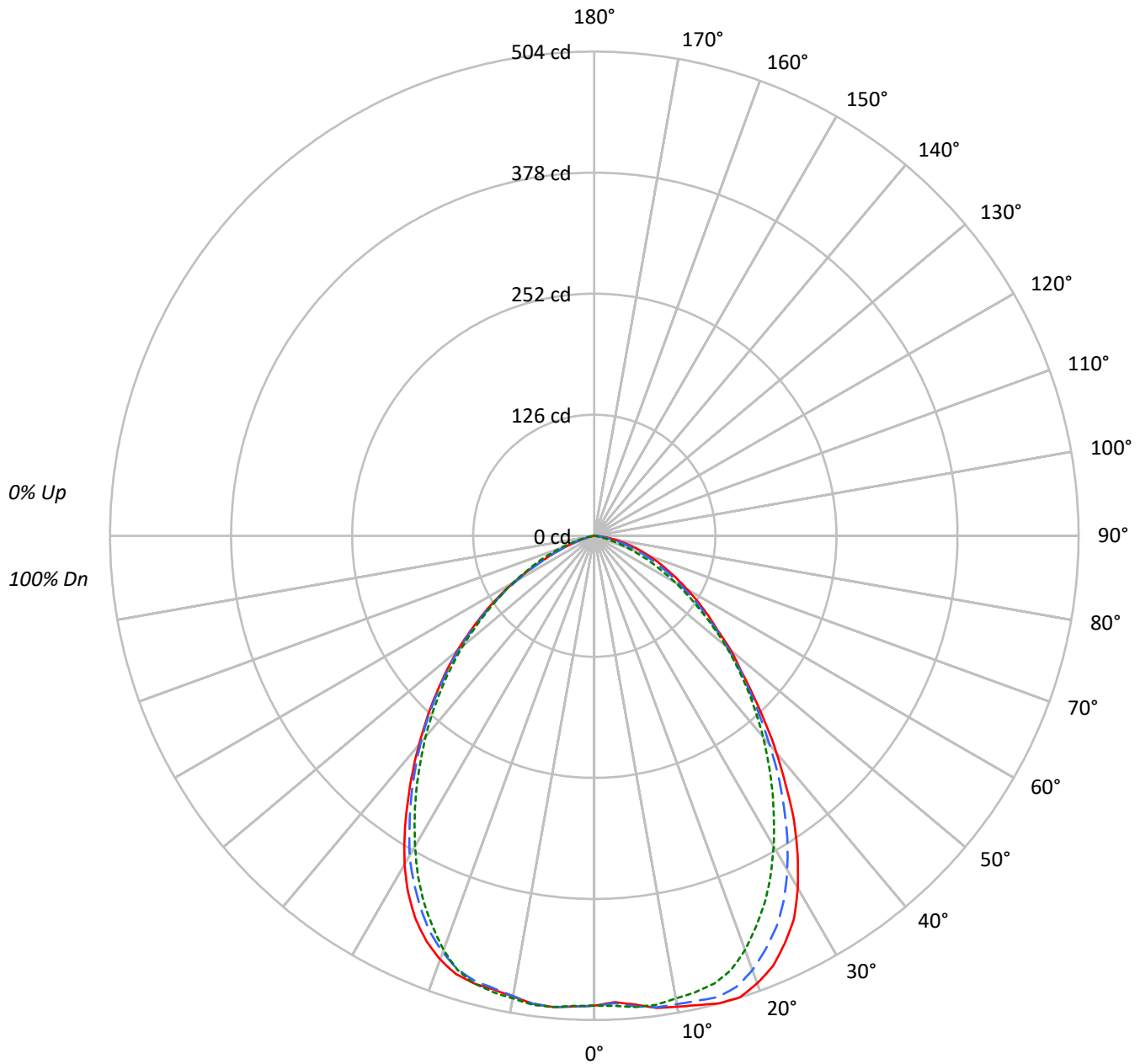
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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	59		
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°	26813	26813	26813
5°	26953	27097	27097
10°	27705	27226	27115
15°	28587	27384	27384
20°	28924	26754	27378
25°	28344	25417	26620
30°	26808	23618	25004
35°	24266	21603	22667
40°	21104	19544	20302
45°	18033	17420	18033
50°	15829	15257	15889
55°	13811	12855	13362
60°	12214	10679	10536
65°	10831	8419	7212
70°	9553	5963	4360
75°	8133	3368	2118
80°	6093	1042	631
85°	3334	440	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	4.8
10°-20°	137.3	13.9
20°-30°	200.5	20.3
30°-40°	210.3	21.3
40°-50°	177.1	17.9
50°-60°	124.1	12.6
60°-70°	66.5	6.7
70°-80°	22.3	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°	384.7	39.0
0°-40°	594.9	60.2
0°-60°	896.2	90.8
0°-90°	987.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	489	489	489	489	489	
5°	490	492	492	492	492	47
15°	504	497	482	480	482	142
25°	469	449	420	428	440	215
35°	363	344	323	332	339	225
45°	233	229	225	231	233	181
55°	144	140	134	137	140	130
65°	84	76	65	54	56	83
75°	38	30	16	10	10	41
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°	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1
2.5°	485.8	485.8	487.1	488.4	489.8	489.8	490.5	491.2	490.5
5°	489.8	489.8	491.7	492.4	492.4	491.7	492.4	492.4	492.4
7.5°	495.8	494.4	495.1	493.8	492.4	491.7	491.2	491.2	491.2
10°	497.7	496.4	495.1	492.4	489.1	487.1	486.5	487.1	487.1
12.5°	500.3	499.1	495.8	490.5	486.5	483.1	482.5	483.8	483.8
15°	503.7	502.4	497.0	488.4	482.5	479.1	479.8	481.2	482.5
17.5°	503.7	501.0	492.4	481.2	473.8	470.5	473.3	476.5	478.5
20°	495.8	493.1	481.2	467.2	458.6	456.6	461.2	467.2	469.3
22.5°	485.2	479.8	465.9	449.3	440.1	440.1	446.7	454.0	456.6
25°	468.6	464.6	448.7	429.5	420.2	419.5	427.5	437.5	440.1
27.5°	450.0	444.7	427.5	407.7	397.7	398.4	407.0	416.8	419.5
30°	423.5	416.8	401.6	382.4	373.1	375.8	384.4	391.7	395.0
32.5°	393.7	387.7	373.8	355.9	347.9	350.6	357.9	364.5	367.2
35°	362.6	355.9	344.0	328.1	322.8	325.4	332.1	337.3	338.7
37.5°	327.4	322.8	314.2	301.6	297.5	300.9	306.2	309.5	310.8
40°	294.9	291.0	283.7	274.4	273.1	275.7	281.0	283.0	283.7
42.5°	263.1	259.8	255.2	248.6	248.6	251.2	255.8	257.2	257.9
45°	232.6	230.7	228.6	223.3	224.7	228.0	230.7	232.6	232.6
47.5°	206.1	206.8	204.2	200.2	201.4	204.8	206.8	208.8	208.8
50°	185.6	183.5	180.9	177.0	178.9	181.6	184.2	185.6	186.3
52.5°	161.7	161.0	159.1	154.4	155.8	157.0	159.8	161.7	162.4
55°	144.5	142.5	139.8	134.5	134.5	135.8	137.2	138.6	139.8
57.5°	127.9	125.9	121.9	116.0	115.3	115.3	114.7	116.0	117.9
60°	111.4	110.7	104.7	99.4	97.4	95.4	92.8	93.5	96.1
62.5°	96.8	95.4	90.2	83.5	79.5	76.3	72.9	72.3	74.9
65°	83.5	82.1	76.3	69.6	64.9	59.0	53.7	53.7	55.6
67.5°	71.6	68.9	63.7	56.3	50.4	43.1	37.7	39.1	39.8
70°	59.6	57.7	51.7	44.4	37.2	29.8	26.5	27.2	27.2
72.5°	49.1	46.3	40.4	33.1	25.8	19.3	17.9	17.2	17.2
75°	38.4	35.8	29.8	22.5	15.9	11.2	10.0	10.0	10.0
77.5°	27.9	25.8	20.5	13.9	8.6	5.3	4.6	4.0	4.0
80°	19.3	17.2	12.6	7.3	3.3	2.0	2.0	2.0	2.0
82.5°	11.2	9.3	6.0	3.3	1.4	0.7	0.7	0.7	0.7
85°	5.3	4.0	2.6	1.4	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)