

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: P581567

Luminaire Tested: **HC610D010-HM60525827-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC610D010-HM60525827-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1039.8 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

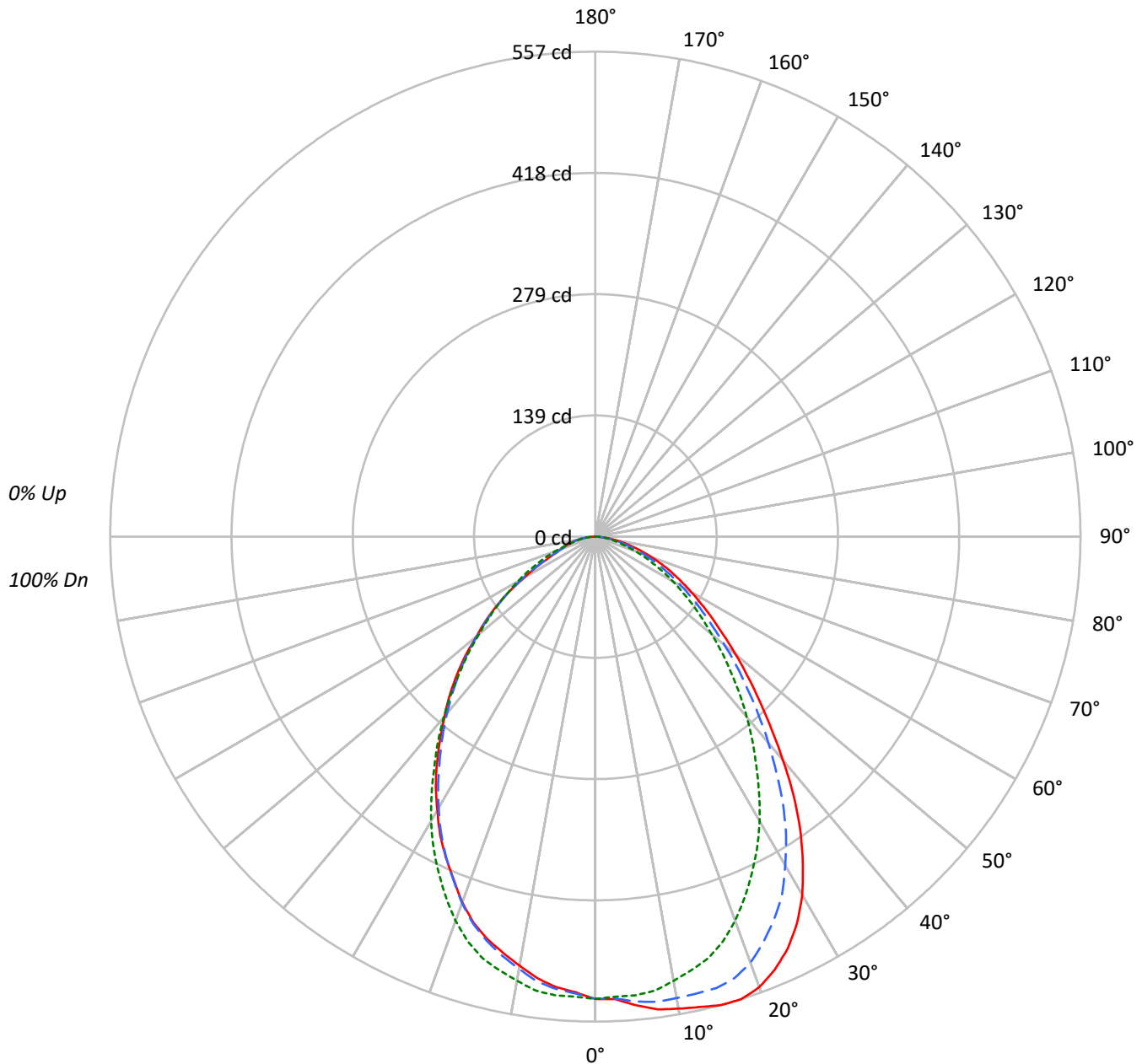
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581567

CATALOG NUMBER: HC610D010-HM60525827-61WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P581567

CATALOG NUMBER: HC610D010-HM60525827-61WWWB

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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52		
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29110	29110	29110
5°	29738	29100	28582
10°	30650	28829	27861
15°	31618	28445	27168
20°	32121	27378	26066
25°	31593	25749	24570
30°	30074	23877	22959
35°	27425	21556	21215
40°	23981	19358	19258
45°	20638	17041	17428
50°	17935	14848	15155
55°	15665	13037	13180
60°	13913	11293	10339
65°	12427	9495	7900
70°	10915	7790	6620
75°	9383	6142	6312
80°	7545	5241	6188
85°	4969	4529	5472



TEST NUMBER: P581567

CATALOG NUMBER: HC610D010-HM60525827-61WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	4.8
10°-20°	143.1	13.8
20°-30°	204.3	19.6
30°-40°	214.0	20.6
40°-50°	180.2	17.3
50°-60°	128.2	12.3
60°-70°	75.0	7.2
70°-80°	35.5	3.4
80°-90°	9.1	0.9
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°	397.7	38.2
0°-40°	611.7	58.8
0°-60°	920.1	88.5
0°-90°	1039.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1039.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	531	531	531	531	531	
5°	540	536	529	522	519	52
15°	557	537	501	481	479	157
25°	522	485	426	406	406	239
35°	410	376	322	311	317	255
45°	266	247	220	220	225	207
55°	164	150	136	136	138	148
65°	96	85	73	62	61	95
75°	44	37	29	28	30	47
85°	8	7	7	9	9	10
90°	0	0	0	0	0	



TEST NUMBER: P581567

CATALOG NUMBER: HC610D010-HM60525827-61WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0
2.5°	531.7	531.7	531.0	530.2	528.8	526.6	525.1	523.8	523.8
5°	540.4	538.9	536.0	532.4	528.8	524.5	521.5	519.4	519.4
7.5°	547.7	544.7	538.9	532.4	525.9	520.0	515.1	512.1	511.4
10°	550.6	547.0	538.3	528.1	517.9	510.0	504.2	500.5	500.5
12.5°	553.4	549.1	537.5	523.0	510.0	499.1	493.2	490.4	489.6
15°	557.1	551.3	536.8	518.7	501.2	488.9	480.9	478.7	478.7
17.5°	557.1	549.8	531.7	509.2	487.4	473.6	466.4	464.2	464.9
20°	550.6	542.6	520.8	493.2	469.3	454.8	447.6	446.1	446.8
22.5°	538.3	528.8	504.2	474.4	448.3	433.1	426.5	426.5	425.7
25°	522.3	512.1	485.3	454.0	425.7	410.6	405.5	406.2	406.2
27.5°	501.2	491.1	464.2	430.8	402.5	387.4	383.7	385.2	385.9
30°	475.1	464.2	435.9	403.3	377.2	362.0	359.7	362.0	362.7
32.5°	443.2	435.3	407.6	374.2	349.7	336.5	335.9	338.0	341.0
35°	409.8	401.2	375.7	345.3	322.1	311.2	311.2	314.8	317.0
37.5°	373.6	364.8	341.6	316.3	296.7	286.5	288.0	291.6	292.3
40°	335.1	328.6	309.0	287.3	270.5	262.6	264.8	268.4	269.1
42.5°	298.8	293.1	277.1	257.5	245.2	239.4	242.2	246.7	248.1
45°	266.2	259.7	246.7	229.9	219.8	216.9	220.5	223.5	224.8
47.5°	236.5	230.7	219.8	204.6	197.3	195.8	199.5	200.9	202.4
50°	210.3	204.6	193.7	179.9	174.1	174.1	177.0	178.4	177.7
52.5°	185.0	179.9	169.7	158.1	154.5	154.5	156.7	157.5	158.8
55°	163.9	158.8	150.1	139.2	136.4	134.9	136.4	136.4	137.9
57.5°	144.3	140.0	132.0	121.9	118.2	116.8	116.0	115.4	116.8
60°	126.9	123.3	114.6	106.0	103.0	99.4	96.4	93.6	94.3
62.5°	110.9	107.3	99.4	90.7	87.7	82.7	79.0	75.4	76.9
65°	95.8	92.1	84.9	77.7	73.2	67.5	61.7	59.4	60.9
67.5°	82.0	79.0	71.8	64.5	60.9	54.4	48.6	48.6	49.4
70°	68.1	65.3	59.4	53.0	48.6	42.8	40.6	41.3	41.3
72.5°	55.8	53.7	47.9	42.1	37.7	34.1	34.1	34.9	35.5
75°	44.3	42.8	37.0	31.9	29.0	26.8	28.3	29.0	29.8
77.5°	34.1	31.9	27.6	23.9	21.7	22.5	23.9	24.7	25.4
80°	23.9	23.2	19.6	17.4	16.6	17.4	18.9	19.6	19.6
82.5°	15.3	14.5	12.3	11.7	11.7	12.3	13.8	13.8	13.8
85°	7.9	7.2	6.6	6.6	7.2	7.9	8.7	8.7	8.7
87.5°	2.9	2.2	2.9	2.9	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)