

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: P581853

Luminaire Tested: **HC620D010-HM60525827-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1695.9 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

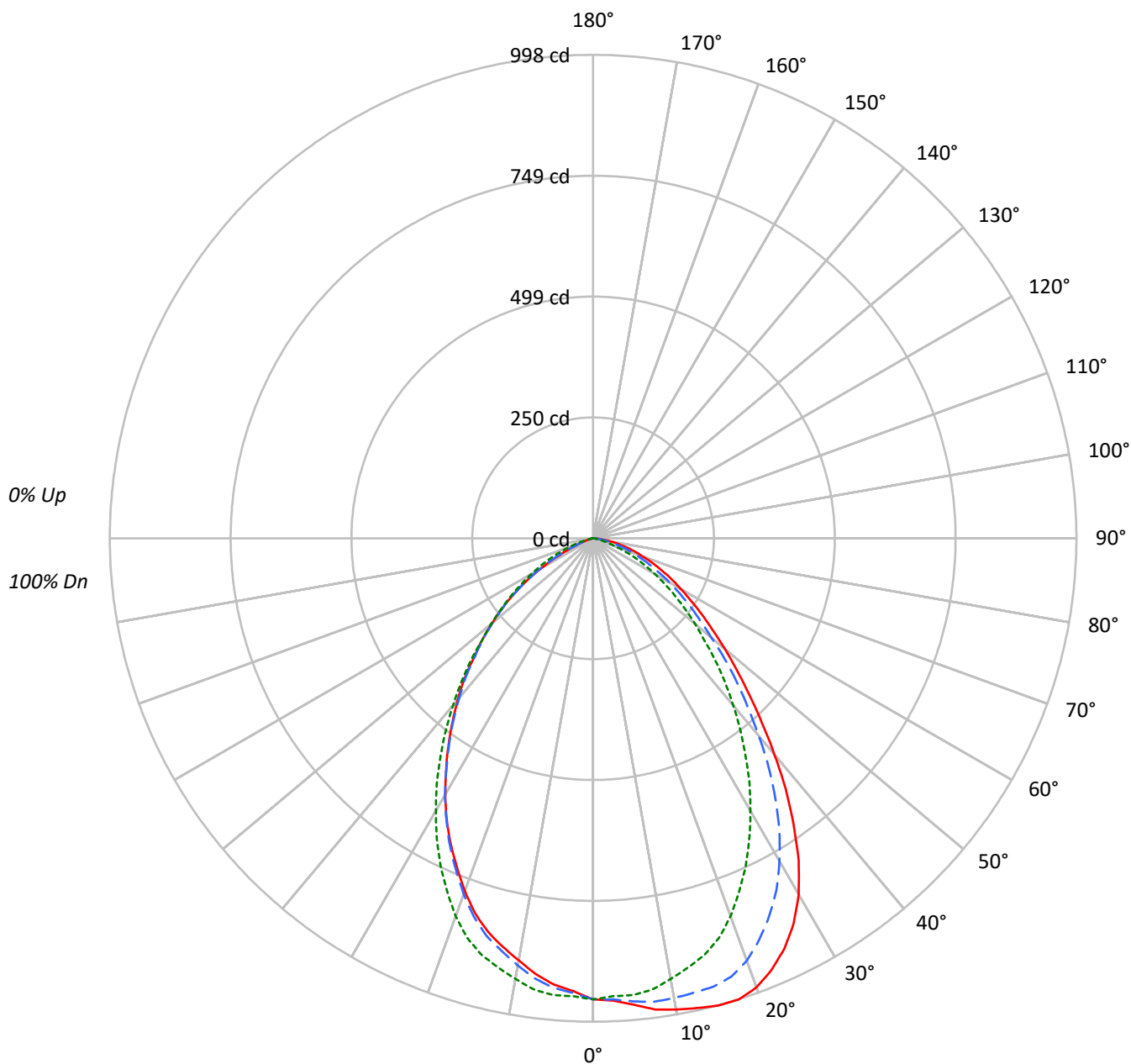
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	108	104	101	109	105	102	100		101	99	97			97	95	94			94
2	103	97	91	87	101	95	90	86		91	87	84			88	85	82			85
3	96	87	80	75	93	86	79	74		83	77	73			80	76	72			78
4	89	79	71	66	87	78	71	65		75	69	64			73	68	64			71
5	83	72	64	58	81	71	63	58		69	62	57			67	61	57			65
6	77	65	58	52	75	65	57	52		63	56	51			61	55	51			60
7	72	60	52	47	70	59	52	47		58	51	46			56	51	46			55
8	67	55	48	43	66	55	47	42		53	47	42			52	46	42			51
9	63	51	44	39	62	51	44	39		50	43	39			49	43	38			48
10	60	48	40	36	58	47	40	36		46	40	36			45	40	35			45

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	52172	52172	52172
5°	53181	52074	50897
10°	54992	51413	49253
15°	56669	50517	47707
20°	57551	48415	45212
25°	56513	45093	42099
30°	53717	41095	38633
35°	48285	36727	34847
40°	41664	32182	31130
45°	35283	27701	26987
50°	30251	23402	23172
55°	26226	19698	18924
60°	22893	15997	13508
65°	20132	12336	7472
70°	17375	8158	3654
75°	14742	3961	1419
80°	11397	1673	852
85°	6793	881	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	5.3
10°-20°	254.0	15.0
20°-30°	357.6	21.1
30°-40°	365.4	21.5
40°-50°	294.6	17.4
50°-60°	197.6	11.7
60°-70°	100.0	5.9
70°-80°	32.0	1.9
80°-90°	5.0	0.3
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°	701.4	41.4
0°-40°	1066.8	62.9
0°-60°	1559.0	91.9
0°-90°	1695.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1695.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	952	952	952	952	952	
5°	966	960	946	932	925	93
15°	998	958	890	850	841	282
25°	934	861	746	700	696	428
35°	722	656	549	518	521	449
45°	455	419	357	345	348	354
55°	274	244	206	197	198	247
65°	155	128	95	63	58	155
75°	70	50	19	7	7	75
85°	11	5	1	1	1	14
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°	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7
2.5°	955.7	954.3	953.0	950.4	946.3	942.3	939.6	937.0	935.6
5°	966.4	963.7	959.7	954.3	946.3	937.0	931.6	926.2	924.9
7.5°	981.2	975.7	965.1	953.0	939.6	926.2	916.8	911.5	907.5
10°	987.9	978.5	963.7	943.7	923.6	907.5	895.4	887.5	884.8
12.5°	993.2	982.4	961.0	934.3	907.5	886.1	872.7	866.1	863.3
15°	998.5	987.9	958.4	923.6	890.1	864.7	850.0	843.3	840.6
17.5°	998.5	983.8	949.0	904.8	864.7	833.9	819.2	812.5	811.1
20°	986.5	970.4	927.6	875.4	829.9	795.0	781.7	777.7	775.0
22.5°	963.7	945.0	896.8	837.9	788.3	754.9	740.2	737.5	734.9
25°	934.3	915.6	860.6	797.7	745.5	712.1	700.1	697.4	696.0
27.5°	896.8	876.7	819.2	754.9	698.7	666.5	655.9	655.9	654.5
30°	848.6	825.8	769.6	705.4	649.2	619.8	611.7	611.7	610.3
32.5°	789.7	766.9	716.1	654.5	600.9	570.2	563.6	566.2	564.8
35°	721.5	702.7	655.9	595.6	548.8	520.7	518.0	520.7	520.7
37.5°	653.2	635.8	595.6	543.4	499.3	473.8	473.8	477.9	476.5
40°	582.2	568.9	531.4	485.8	449.7	432.4	429.6	433.7	435.0
42.5°	515.3	504.6	472.5	435.0	402.9	385.4	389.5	392.1	393.5
45°	455.1	444.4	419.0	380.1	357.3	345.3	345.3	349.3	348.1
47.5°	401.5	393.5	368.1	330.6	310.6	305.2	307.8	310.6	310.6
50°	354.7	342.6	318.6	289.1	274.4	267.7	270.3	271.7	271.7
52.5°	310.6	302.5	278.4	251.6	238.3	234.2	234.2	235.6	235.6
55°	274.4	265.0	243.6	216.9	206.1	200.8	196.8	195.4	198.0
57.5°	239.6	231.6	211.5	186.0	174.0	168.7	160.7	157.9	160.7
60°	208.8	202.1	182.1	157.9	145.9	135.2	125.8	120.4	123.2
62.5°	182.1	174.0	154.0	133.8	120.4	108.4	93.7	85.7	89.7
65°	155.2	148.5	128.5	108.4	95.1	80.3	62.9	57.6	57.6
67.5°	131.2	124.5	105.7	88.4	72.3	54.8	38.9	37.5	38.9
70°	108.4	101.7	85.7	68.3	50.9	33.4	22.8	22.8	22.8
72.5°	89.7	81.7	67.0	49.5	32.2	17.4	12.0	13.4	13.4
75°	69.6	62.9	49.5	33.4	18.7	8.0	6.7	6.7	6.7
77.5°	52.2	46.8	34.8	21.4	9.4	2.7	2.7	2.7	2.7
80°	36.1	30.8	22.8	13.4	5.3	2.7	2.7	2.7	2.7
82.5°	21.4	18.7	13.4	6.7	2.7	1.4	1.4	1.4	1.4
85°	10.8	9.4	5.3	2.7	1.4	1.4	1.4	1.4	1.4
87.5°	2.7	2.7	1.4	1.4	0.0	1.4	1.4	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)