

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

Report Number: P27458

Luminaire Tested: **6255TBZ-E7ICAT _ H7ICAT-60WA19**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P27458
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: 6255TBZ-E7ICAT _ H7ICAT-60WA19
Description: H7 6" RECESSED INCANDESCENT WITH SOFT SQUARE FROST LENS AND
TUSCAN BRONZE PLASTIC SF RING, SHOWERLIGHT
Light Source: (1) GE MEDIUM BASE INCANDESCENT
60A19/IF
Ballast/Driver: (1) CHROMA AC POWER SUPPLY
IN0061

Summary

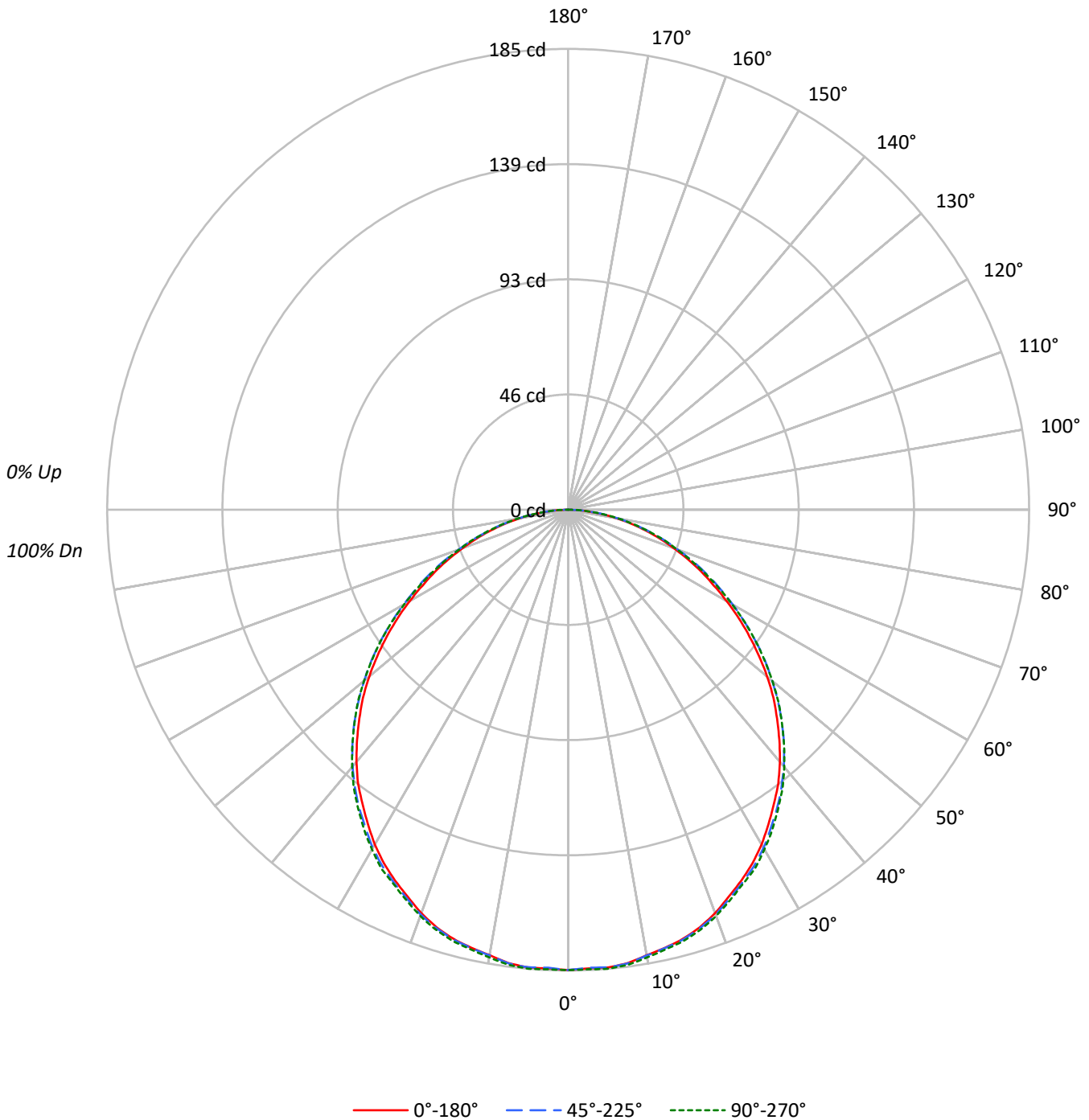
Lumens per Lamp: 960 (1 lamp)
Luminaire Lumens: 514.0 lumens
Efficiency: 53.5%
Efficacy: 8.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 59.7
Input Voltage (V): 120.04
Input Current (Ain): 0.49757
Voltage Rise (V): NR
Power Factor: 1
Total Harmonic Distortion (THDi): 0.64%
Frequency (hertz): 60
Stabilization Time: 0.25 HR
Operation Time: 0.5 HR
Ambient Temperature (°C): 24.9
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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	64	64	64	64	62	62	62	62	59	59	59		57	57	57		55	55	55	54
1	58	56	53	51	57	54	52	51	52	50	49		50	49	47		48	47	46	45
2	53	49	45	42	52	48	44	41	46	43	40		44	42	39		42	40	39	37
3	48	43	38	35	47	42	38	35	40	37	34		39	36	33		37	35	33	32
4	44	38	33	30	43	37	33	29	36	32	29		35	31	29		33	31	28	27
5	41	34	29	26	40	33	29	25	32	28	25		31	28	25		30	27	25	23
6	38	31	26	22	37	30	25	22	29	25	22		28	25	22		27	24	22	20
7	35	28	23	20	34	27	23	20	26	22	19		26	22	19		25	22	19	18
8	33	25	21	18	32	25	21	18	24	20	17		24	20	17		23	20	17	16
9	30	23	19	16	30	23	19	16	22	18	16		22	18	16		21	18	16	15
10	28	21	17	14	28	21	17	14	21	17	14		20	17	14		20	16	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7957	7957	7957
5°	7974	7970	7996
10°	7940	7944	7979
15°	7948	7961	7988
20°	7899	7927	7954
25°	7805	7853	7877
30°	7716	7796	7830
35°	7569	7684	7716
40°	7430	7565	7582
45°	7215	7392	7386
50°	6980	7160	7167
55°	6673	6891	6891
60°	6321	6570	6536
65°	6011	6255	6194
70°	5665	5891	5841
75°	5323	5540	5540
80°	4860	5058	5083
85°	4051	4199	4248



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	17.5	3.4	1.8
10°-20°	50.3	9.8	5.2
20°-30°	76.1	14.8	7.9
30°-40°	91.1	17.7	9.5
40°-50°	92.9	18.1	9.7
50°-60°	81.2	15.8	8.5
60°-70°	60.0	11.7	6.3
70°-80°	34.9	6.8	3.6
80°-90°	9.9	1.9	1.0
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	143.9	28.0	15.0
0°-40°	235.0	45.7	24.5
0°-60°	409.2	79.6	42.6
0°-90°	514.0	100.0	53.5
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	514.0	100.0	53.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	185	185	185	185	185	
5°	184	184	184	184	185	18
15°	178	178	179	179	179	50
25°	164	164	165	166	166	76
35°	144	144	146	146	147	90
45°	118	120	121	121	121	91
55°	89	90	92	92	92	79
65°	59	60	61	61	61	58
75°	32	33	33	33	33	34
85°	8	8	8	8	9	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	184.8	184.8	184.8	184.8	184.8
2.5°	184.3	183.8	184.0	183.9	184.7
5°	184.5	184.1	184.4	184.4	185.0
7.5°	183.6	183.3	183.7	183.6	184.3
10°	181.6	181.3	181.7	181.6	182.5
12.5°	180.1	179.9	180.2	180.1	180.8
15°	178.3	178.2	178.6	178.6	179.2
17.5°	175.8	175.5	176.1	176.0	176.8
20°	172.4	172.3	173.0	172.8	173.6
22.5°	168.2	168.2	169.0	169.2	169.7
25°	164.3	164.3	165.3	165.5	165.8
27.5°	160.1	160.1	161.4	161.3	162.4
30°	155.2	155.4	156.8	156.9	157.5
32.5°	149.6	149.9	151.4	151.7	152.4
35°	144.0	144.5	146.2	146.3	146.8
37.5°	138.5	139.2	140.6	140.8	141.2
40°	132.2	133.0	134.6	134.7	134.9
42.5°	125.4	126.2	128.2	128.2	128.2
45°	118.5	119.5	121.4	121.3	121.3
47.5°	111.7	112.5	114.3	114.1	114.5
50°	104.2	105.0	106.9	106.7	107.0
52.5°	96.6	97.5	99.5	99.4	99.3
55°	88.9	89.9	91.8	91.6	91.8
57.5°	81.3	82.2	84.0	83.9	83.9
60°	73.4	74.4	76.3	76.1	75.9
62.5°	65.9	67.1	68.8	68.5	68.2
65°	59.0	59.9	61.4	61.2	60.8
67.5°	51.9	52.9	54.1	53.9	53.5
70°	45.0	45.8	46.8	46.6	46.4
72.5°	38.5	39.3	40.0	40.1	40.0
75°	32.0	32.7	33.3	33.2	33.3
77.5°	25.8	26.3	26.7	26.9	26.9
80°	19.6	19.9	20.4	20.4	20.5
82.5°	13.9	13.9	14.3	14.3	14.4
85°	8.2	8.4	8.5	8.5	8.6
87.5°	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)