

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: P27435

Luminaire Tested: **5255TBZ-E5ICAT \_ H5ICAT-60WA19**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P27435  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: 5255TBZ-E5ICAT \_ H5ICAT-60WA19  
Description: H5 5" RECESSED INCANDESCENT WITH SOFT SQUARE FROST LENS,  
TUSCAN BRONZE PLASTIC SF RING, SHOWERLIGHT  
Light Source: (1) GE MEDIUM BASE INCANDESCENT  
60A19/IF  
Ballast/Driver: (1) CHROMA AC POWER SUPPLY  
IN0061

**Summary**

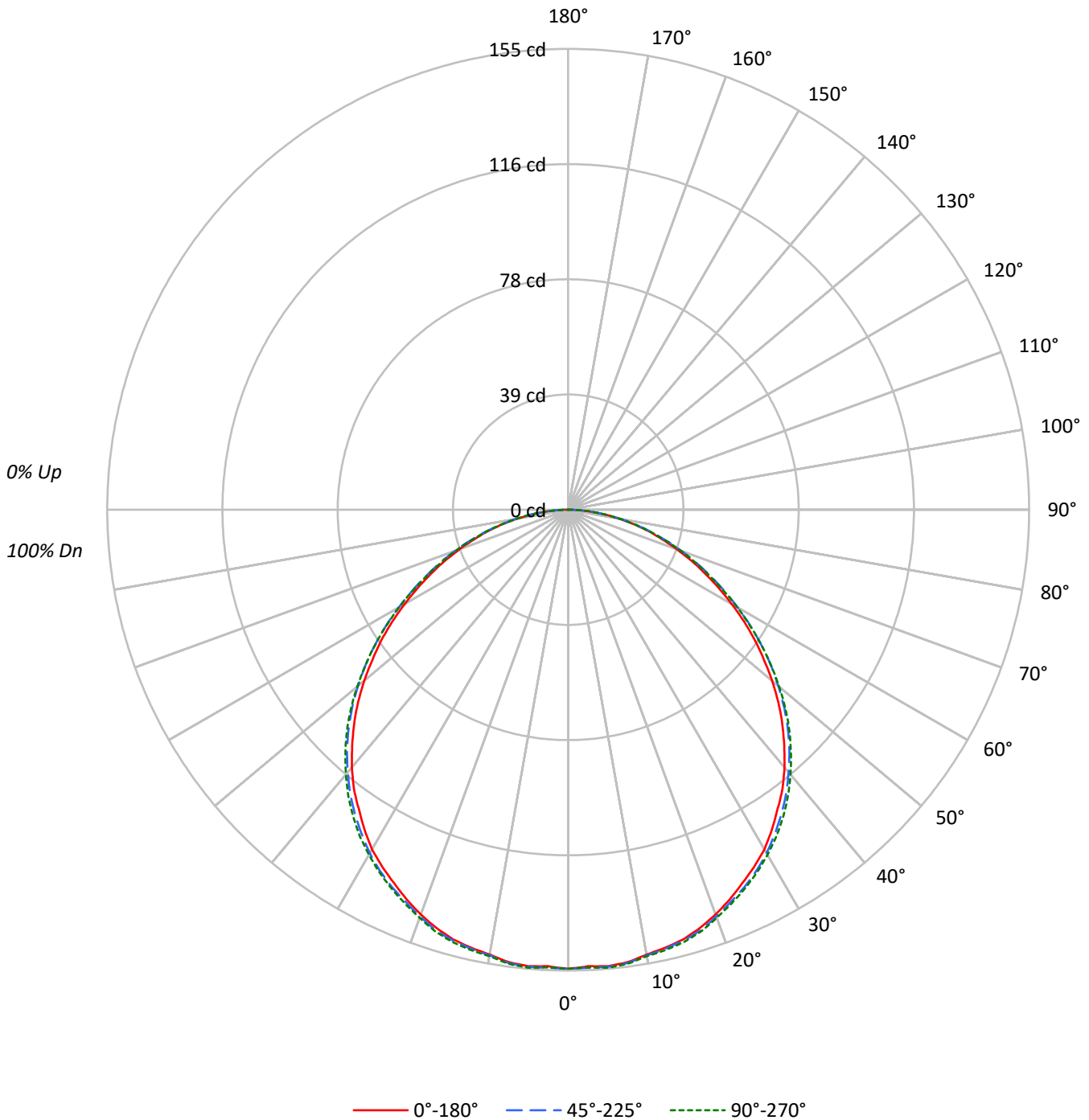
Lumens per Lamp: 960 (1 lamp)  
Luminaire Lumens: 440.7 lumens  
Efficiency: 45.9%  
Efficacy: 7.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 0.42' x L: 0.42' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 59.8  
Input Voltage (V): 120.27  
Input Current (Ain): 0.49761  
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): 24.5  
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	55	55	55	55	53	53	53	53	51	51	51	49	49	49	47	47	47	46
1	50	48	46	44	49	47	45	43	45	43	42	43	42	41	41	40	39	38
2	45	42	38	36	44	41	38	35	39	37	35	38	36	34	36	35	33	32
3	41	37	33	30	40	36	32	30	34	31	29	33	31	28	32	30	28	27
4	38	32	28	25	37	32	28	25	31	27	25	30	27	24	29	26	24	23
5	35	29	25	22	34	28	25	22	27	24	21	27	24	21	26	23	21	20
6	32	26	22	19	31	26	22	19	25	21	19	24	21	19	23	21	18	17
7	30	24	20	17	29	23	19	17	23	19	17	22	19	16	21	18	16	15
8	28	22	18	15	27	21	17	15	21	17	15	20	17	15	20	17	15	14
9	26	20	16	13	25	19	16	13	19	16	13	18	15	13	18	15	13	12
10	24	18	15	12	24	18	15	12	18	14	12	17	14	12	17	14	12	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9573	9573	9573
5°	9591	9603	9622
10°	9563	9582	9601
15°	9602	9628	9660
20°	9560	9607	9640
25°	9482	9584	9618
30°	9443	9550	9593
35°	9294	9461	9537
40°	9154	9332	9413
45°	8926	9163	9224
50°	8633	8893	8932
55°	8291	8572	8572
60°	7874	8159	8147
65°	7453	7731	7687
70°	7034	7342	7287
75°	6683	6899	6827
80°	6141	6391	6284
85°	5478	5691	5691



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	14.7	3.3	1.5
10°-20°	42.3	9.6	4.4
20°-30°	64.5	14.6	6.7
30°-40°	78.0	17.7	8.1
40°-50°	80.0	18.2	8.3
50°-60°	70.2	15.9	7.3
60°-70°	51.8	11.7	5.4
70°-80°	30.2	6.8	3.1
80°-90°	9.1	2.1	0.9
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°	121.5	27.6	12.7
0°-40°	199.4	45.2	20.8
0°-60°	349.7	79.3	36.4
0°-90°	440.7	100.0	45.9
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°	440.7	100.0	45.9

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	154	154	154	154	154	
5°	154	155	154	154	155	15
15°	150	150	150	150	150	42
25°	139	140	140	140	141	64
35°	123	124	125	125	126	77
45°	102	103	104	105	105	78
55°	77	78	79	79	79	69
65°	51	52	53	52	52	50
75°	28	28	29	29	28	29
85°	8	8	8	8	8	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	154.4	154.4	154.4	154.4	154.4
2.5°	153.7	154.2	154.2	153.8	154.1
5°	154.1	154.6	154.3	154.1	154.6
7.5°	153.5	153.9	153.8	153.5	154.0
10°	151.9	152.2	152.2	152.2	152.5
12.5°	150.9	151.2	151.2	151.1	151.7
15°	149.6	149.9	150.0	150.0	150.5
17.5°	147.5	148.1	148.3	148.3	148.7
20°	144.9	145.3	145.6	145.8	146.1
22.5°	141.9	142.4	142.8	142.9	143.4
25°	138.6	139.6	140.1	140.2	140.6
27.5°	135.4	136.4	137.0	137.2	137.5
30°	131.9	132.6	133.4	133.7	134.0
32.5°	127.5	128.4	129.3	129.5	130.3
35°	122.8	123.9	125.0	125.1	126.0
37.5°	118.4	119.4	120.4	120.7	121.4
40°	113.1	114.2	115.3	115.6	116.3
42.5°	107.5	108.9	110.1	110.2	110.9
45°	101.8	103.2	104.5	104.6	105.2
47.5°	95.8	97.0	98.5	98.5	99.1
50°	89.5	90.8	92.2	92.3	92.6
52.5°	83.0	84.4	85.9	85.7	85.9
55°	76.7	77.9	79.3	79.3	79.3
57.5°	70.2	71.3	72.6	72.6	72.4
60°	63.5	64.7	65.8	65.8	65.7
62.5°	57.0	58.1	59.2	58.9	58.8
65°	50.8	51.7	52.7	52.4	52.4
67.5°	44.8	45.6	46.6	46.5	46.1
70°	38.8	39.7	40.5	40.4	40.2
72.5°	33.1	33.7	34.5	34.4	34.1
75°	27.9	28.2	28.8	28.7	28.5
77.5°	22.6	22.9	23.2	23.2	23.0
80°	17.2	17.5	17.9	17.8	17.6
82.5°	12.4	12.6	12.8	12.8	12.7
85°	7.7	7.8	8.0	8.0	8.0
87.5°	3.8	3.9	3.9	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)