

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: P27421

Luminaire Tested: **5255TBZ-E5ICAT _ H5ICAT-29WA19**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P27421
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: 5255TBZ-E5ICAT _ H5ICAT-29WA19
Description: H5 5" RECESSED INCANDESCENT WITH FROST LENS, TUSCAN BRONZE PLASTIC
SELF-FLANGE RING, SHOWERLIGHT
Light Source: (1) PHILIPS ECOVANTAGE MEDIUM BASE INCANDESCENT
29A19/EV
Ballast/Driver: (1) CHROMA AC POWER SUPPLY
IN0061

Summary

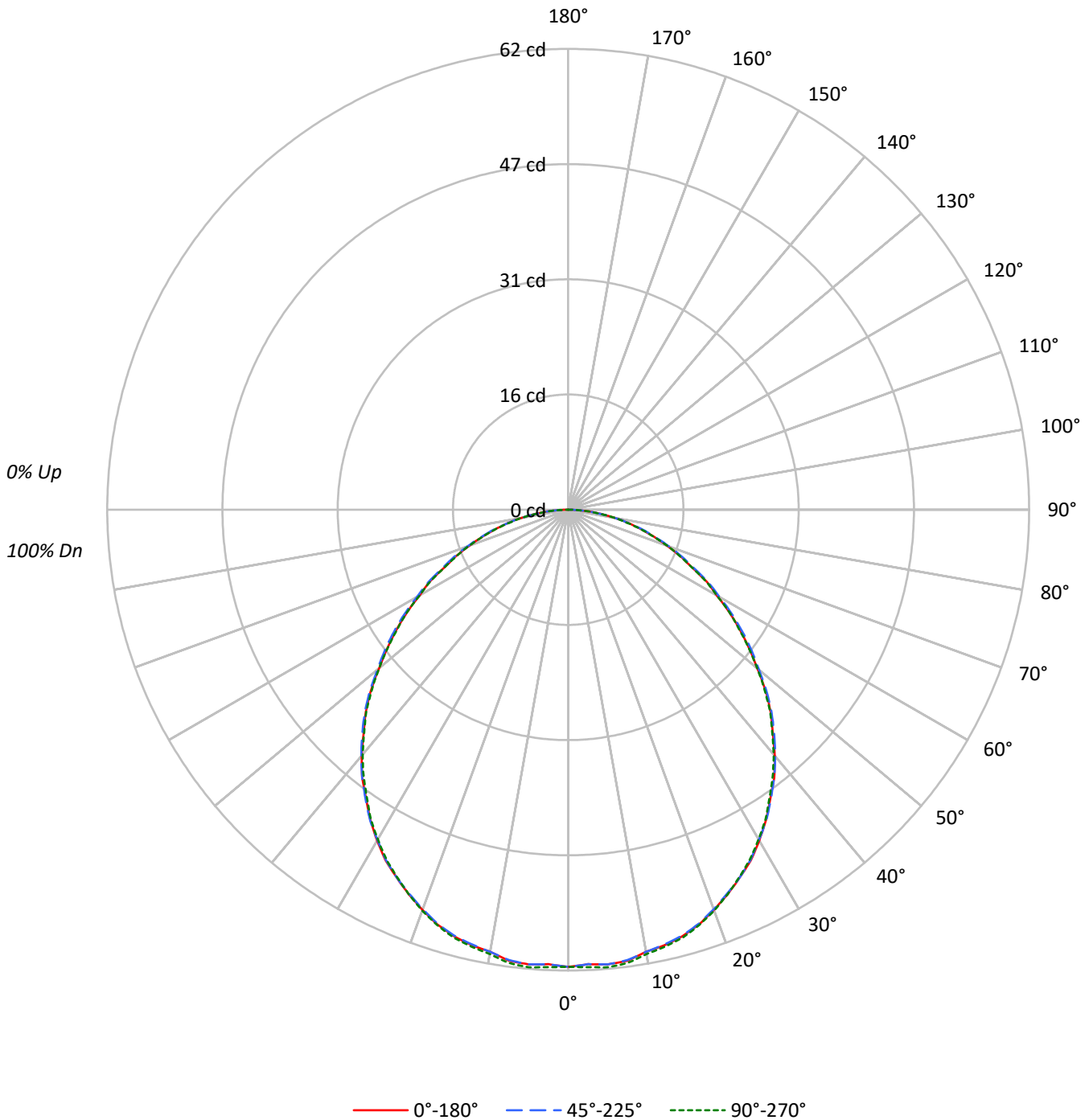
Lumens per Lamp: 380 (1 lamp)
Luminaire Lumens: 164.9 lumens
Efficiency: 43.4%
Efficacy: 5.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.42' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
Input Voltage (V): 120.50
Input Current (Ain): 0.23688
Voltage Rise (V): NR
Power Factor: 1
Total Harmonic Distortion (THDi): 0.96%
Frequency (hertz): 60
Stabilization Time: 0.25 HR
Operation Time: 0.5 HR
Ambient Temperature (°C): 24.8
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	50	30	10	0	
RCR																						
0	52	52	52	52	50	50	50	50	48	48	48	46	46	46	44	44	44	43				43
1	47	45	43	42	46	44	43	41	42	41	40	41	40	39	39	38	37				36	
2	43	40	37	34	42	39	36	34	37	35	33	36	34	32	34	33	31				31	
3	39	35	31	29	38	34	31	28	33	30	28	32	29	27	31	29	27				26	
4	36	31	27	24	35	30	27	24	29	26	24	28	26	23	27	25	23				22	
5	33	28	24	21	32	27	24	21	26	23	21	25	23	20	25	22	20				19	
6	31	25	21	18	30	25	21	18	24	21	18	23	20	18	22	20	18				17	
7	28	23	19	16	28	22	19	16	22	18	16	21	18	16	20	18	16				15	
8	27	21	17	15	26	20	17	14	20	17	14	19	16	14	19	16	14				13	
9	25	19	15	13	24	19	15	13	18	15	13	18	15	13	17	15	13				12	
10	23	18	14	12	23	17	14	12	17	14	12	17	14	12	16	14	12				11	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3813	3813	3813
5°	3821	3821	3846
10°	3803	3803	3821
15°	3813	3806	3826
20°	3781	3774	3787
25°	3735	3735	3728
30°	3680	3673	3665
35°	3588	3595	3572
40°	3496	3504	3480
45°	3376	3393	3367
50°	3202	3231	3202
55°	3048	3091	3037
60°	2864	2914	2864
65°	2685	2743	2685
70°	2556	2610	2574
75°	2419	2491	2419
80°	2285	2285	2285
85°	2063	2063	2063



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	5.8	3.5	1.5
10°-20°	16.7	10.1	4.4
20°-30°	25.1	15.2	6.6
30°-40°	29.6	18.0	7.8
40°-50°	29.6	18.0	7.8
50°-60°	25.4	15.4	6.7
60°-70°	18.5	11.2	4.9
70°-80°	10.8	6.5	2.8
80°-90°	3.3	2.0	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°	47.7	28.9	12.5
0°-40°	77.3	46.9	20.3
0°-60°	132.3	80.2	34.8
0°-90°	164.9	100.0	43.4
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°	164.9	100.0	43.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	62	62	62	62	62	
5°	61	61	61	61	62	6
15°	59	59	59	59	60	17
25°	55	55	55	54	54	25
35°	47	48	48	47	47	30
45°	38	39	39	38	38	30
55°	28	28	29	28	28	25
65°	18	19	19	18	18	18
75°	10	10	10	10	10	11
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	61.5	61.5	61.5	61.5	61.5
2.5°	61.2	61.2	61.2	61.2	61.6
5°	61.4	61.4	61.4	61.4	61.8
7.5°	61.2	61.2	61.1	61.0	61.5
10°	60.4	60.4	60.4	60.4	60.7
12.5°	60.0	60.0	59.9	59.8	60.2
15°	59.4	59.4	59.3	59.2	59.6
17.5°	58.5	58.5	58.4	58.3	58.6
20°	57.3	57.4	57.2	57.1	57.4
22.5°	56.0	56.1	55.9	55.7	56.0
25°	54.6	54.7	54.6	54.3	54.5
27.5°	53.2	53.2	53.1	52.8	53.0
30°	51.4	51.4	51.3	51.0	51.2
32.5°	49.5	49.6	49.6	49.2	49.4
35°	47.4	47.5	47.5	47.1	47.2
37.5°	45.5	45.5	45.5	45.1	45.2
40°	43.2	43.4	43.3	43.0	43.0
42.5°	40.7	40.9	41.0	40.6	40.6
45°	38.5	38.7	38.7	38.3	38.4
47.5°	36.0	36.1	36.2	35.8	35.8
50°	33.2	33.4	33.5	33.2	33.2
52.5°	30.7	30.9	31.1	30.7	30.6
55°	28.2	28.4	28.6	28.3	28.1
57.5°	25.7	26.0	26.1	25.9	25.7
60°	23.1	23.4	23.5	23.3	23.1
62.5°	21.0	21.1	21.3	21.0	20.9
65°	18.3	18.6	18.7	18.5	18.3
67.5°	16.3	16.4	16.6	16.4	16.2
70°	14.1	14.2	14.4	14.2	14.2
72.5°	12.1	12.2	12.3	12.2	12.0
75°	10.1	10.2	10.4	10.2	10.1
77.5°	8.3	8.2	8.3	8.2	8.1
80°	6.4	6.4	6.4	6.4	6.4
82.5°	4.6	4.5	4.5	4.6	4.5
85°	2.9	2.9	2.9	2.9	2.9
87.5°	1.5	1.5	1.5	1.5	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)