Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: E395752

Luminaire Tested: **H7-70**

Issue Date: 3/3/2020

Report Generated By E9970913 / USPTCWHP6095502

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Test Information

Test Method:	LM-41-14
Report Number:	E395752
Test Lab:	
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	HALO
Catalog Number:	H7-70
Description:	HALO RECESSED INC - H7 HOUSING, ALBALITE LENS
Light Source:	60A19, 870 LUMENS
Ballast/Driver:	-

Summary

Lumens per Lamp:	870 (1 lamp)
Luminaire Lumens:	220.9 lumens
Efficiency:	25.4%
Efficacy:	3.7 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.27 / 1.36
Luminous Opening:	(L: 0 ' x W: -0.43 ' x H: 0 '
CIE Type:	Direct

Input Watts (W):	60
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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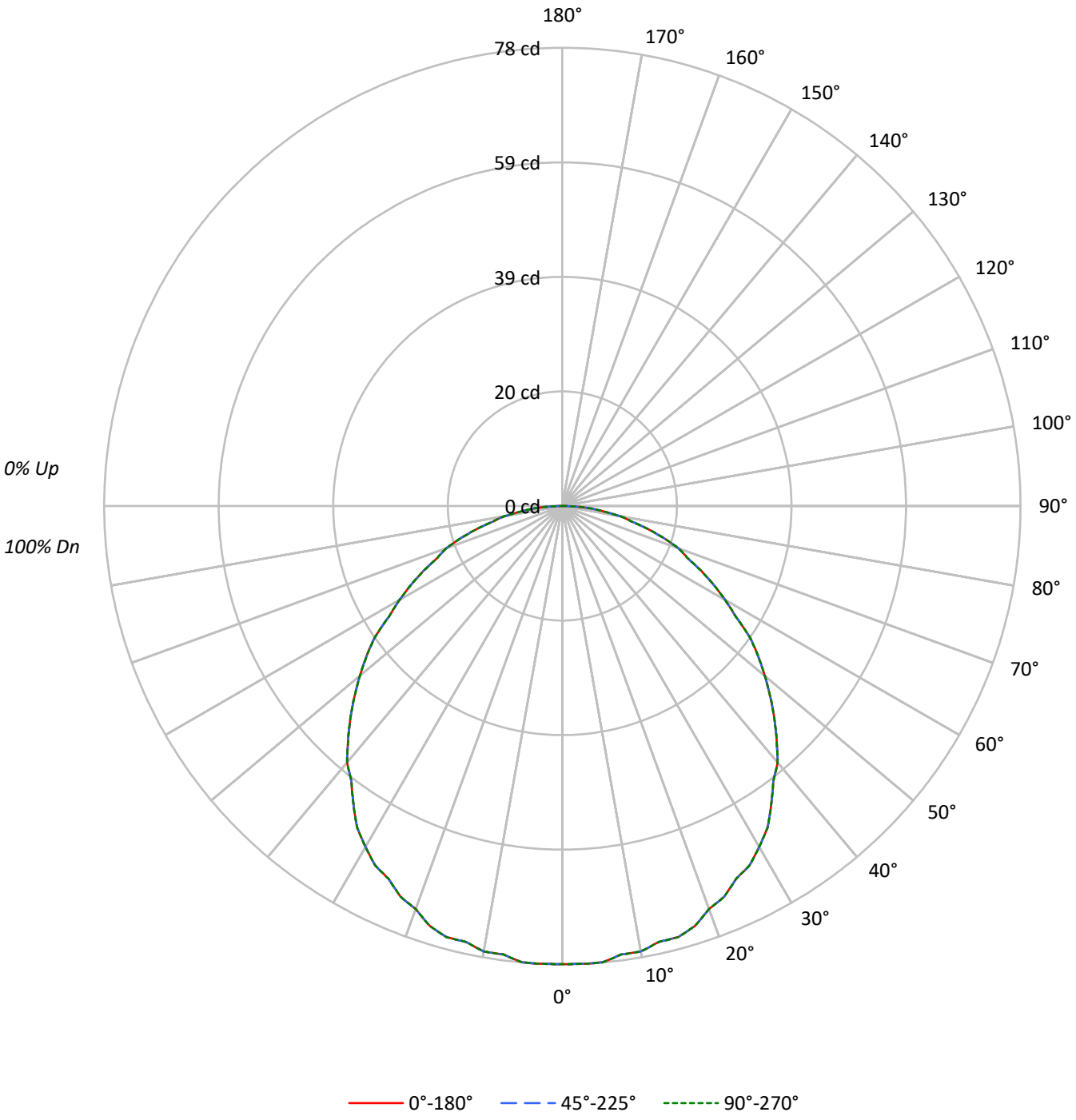
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	30	30	30	30	30	30	30	30	28	28	28	27	27	27	26	26	26	25
1	28	26	25	24	27	26	25	24	25	24	23	24	23	22	23	22	22	21
2	25	23	21	20	24	22	21	19	22	20	19	21	20	19	20	19	18	18
3	23	20	18	16	22	20	18	16	19	17	16	18	17	16	18	16	15	15
4	21	18	16	14	20	18	15	14	17	15	14	16	15	13	16	14	13	13
5	19	16	14	12	19	16	14	12	15	13	12	15	13	12	14	13	12	11
6	18	14	12	10	17	14	12	10	14	12	10	13	12	10	13	11	10	10
7	16	13	11	9	16	13	11	9	12	11	9	12	10	9	12	10	9	9
8	15	12	10	8	15	12	10	8	11	10	8	11	9	8	11	9	8	8
9	14	11	9	7	14	11	9	7	10	9	7	10	9	7	10	8	7	7
10	13	10	8	7	13	10	8	7	10	8	7	9	8	7	9	8	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminous shape not found, reference photometric report, or contact the photometric lab for calculations.		
5°			
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	7.4	3.3	0.8
10°-20°	21.4	9.7	2.5
20°-30°	32.4	14.7	3.7
30°-40°	38.8	17.6	4.5
40°-50°	39.4	17.8	4.5
50°-60°	34.5	15.6	4.0
60°-70°	25.9	11.7	3.0
70°-80°	16.0	7.2	1.8
80°-90°	5.2	2.3	0.6
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°	61.2	27.7	7.0
0°-40°	100.0	45.3	11.5
0°-60°	173.9	78.7	20.0
0°-90°	220.9	100.0	25.4
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°	220.9	100.0	25.4

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	78	78	78	78	78	
5°	78	78	78	78	78	7
15°	76	76	76	76	76	21
25°	70	70	70	70	70	32
35°	62	62	62	62	62	39
45°	51	51	51	51	51	39
55°	39	39	39	39	39	35
65°	26	26	26	26	26	26
75°	15	15	15	15	15	16
85°	5	5	5	5	5	5
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°	78	78	78	78	78	78	78	78	78
2.5°	78	78	78	78	78	78	78	78	78
5°	78	78	78	78	78	78	78	78	78
7.5°	77	77	77	77	77	77	77	77	77
10°	77	77	77	77	77	77	77	77	77
12.5°	76	76	76	76	76	76	76	76	76
15°	76	76	76	76	76	76	76	76	76
17.5°	75	75	75	75	75	75	75	75	75
20°	73	73	73	73	73	73	73	73	73
22.5°	72	72	72	72	72	72	72	72	72
25°	70	70	70	70	70	70	70	70	70
27.5°	69	69	69	69	69	69	69	69	69
30°	67	67	67	67	67	67	67	67	67
32.5°	65	65	65	65	65	65	65	65	65
35°	62	62	62	62	62	62	62	62	62
37.5°	59	59	59	59	59	59	59	59	59
40°	57	57	57	57	57	57	57	57	57
42.5°	54	54	54	54	54	54	54	54	54
45°	51	51	51	51	51	51	51	51	51
47.5°	48	48	48	48	48	48	48	48	48
50°	45	45	45	45	45	45	45	45	45
52.5°	42	42	42	42	42	42	42	42	42
55°	39	39	39	39	39	39	39	39	39
57.5°	35	35	35	35	35	35	35	35	35
60°	32	32	32	32	32	32	32	32	32
62.5°	29	29	29	29	29	29	29	29	29
65°	26	26	26	26	26	26	26	26	26
67.5°	23	23	23	23	23	23	23	23	23
70°	21	21	21	21	21	21	21	21	21
72.5°	18	18	18	18	18	18	18	18	18
75°	15	15	15	15	15	15	15	15	15
77.5°	12	12	12	12	12	12	12	12	12
80°	10	10	10	10	10	10	10	10	10
82.5°	7	7	7	7	7	7	7	7	7
85°	5	5	5	5	5	5	5	5	5
87.5°	2	2	2	2	2	2	2	2	2
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)