

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: 267p130

Luminaire Tested: **H270ICAT-13DTT-470SC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 267p130
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H270ICAT-13DTT-470SC
Description: HALO 6" RECESSED ROUND DOWNLIGHT, 13CF SPECULAR CONE REFLECTOR
Light Source: ONE - PL-C13/4P - 900 LUMENS -13 WATTS
Ballast/Driver: CBT113L-120B

Summary

Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 567.0 lumens
Efficiency: 63.0%
Efficacy: 40.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.16
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

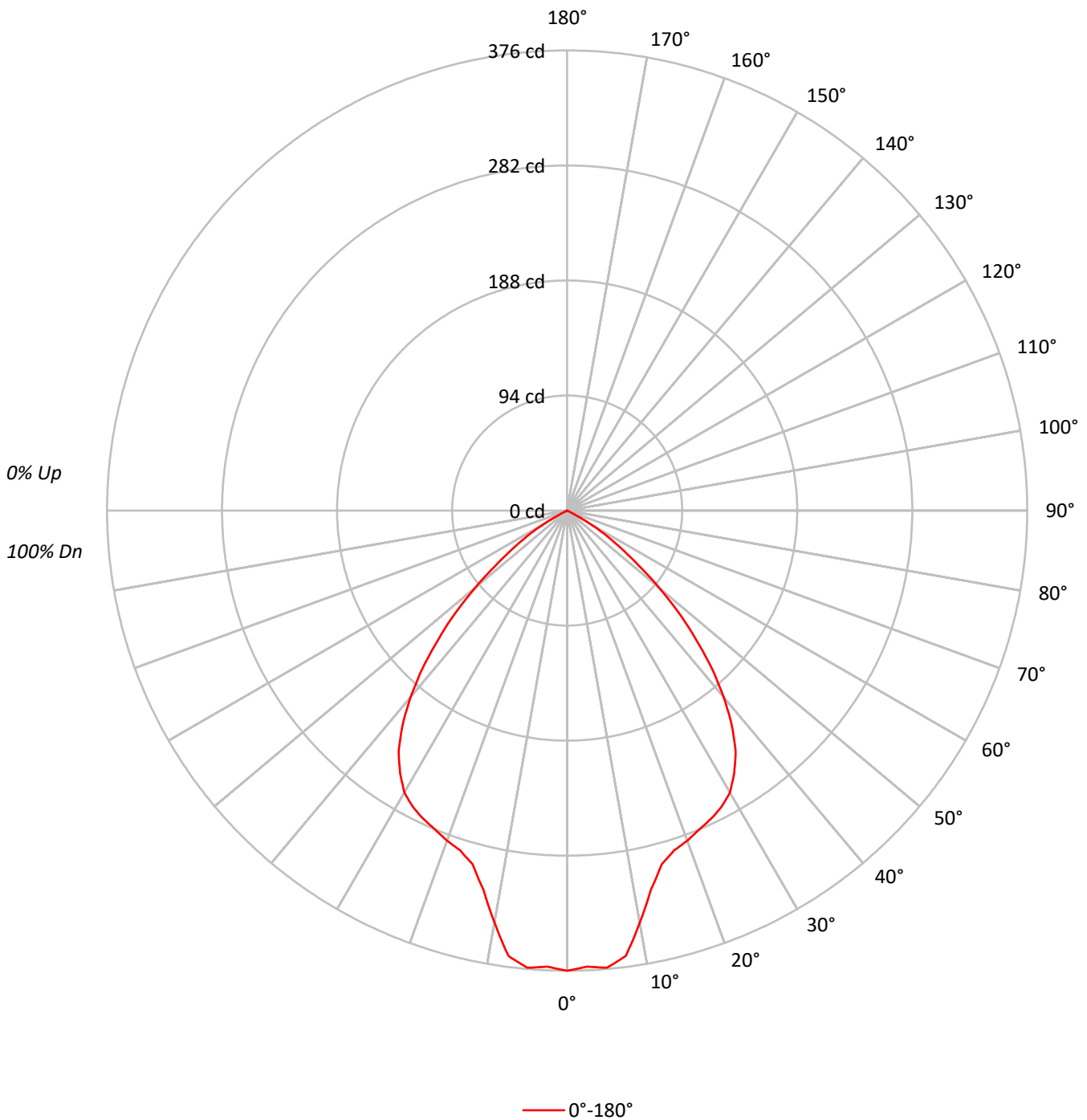
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: 267p130

CATALOG NUMBER: H270ICAT-13DTT-470SC

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	75	75	75	75	73	73	73	73	70	70	70		67	67	67		64	64	64	63
1	71	69	67	65	69	67	66	64	65	63	62		62	61	60		60	59	59	57
2	66	62	59	57	65	61	59	56	59	57	55		57	55	54		56	54	53	51
3	62	57	53	50	60	56	52	50	54	51	49		53	50	48		51	49	47	46
4	58	52	48	44	56	51	47	44	50	46	43		48	45	43		47	44	42	41
5	54	47	43	39	53	47	42	39	45	42	39		44	41	39		43	40	38	37
6	50	43	39	35	49	43	38	35	42	38	35		41	37	35		40	37	35	33
7	47	40	35	32	46	39	35	32	39	35	32		38	34	32		37	34	31	30
8	44	37	32	29	43	36	32	29	36	32	29		35	31	29		34	31	29	28
9	41	34	30	27	41	34	29	27	33	29	26		32	29	26		32	29	26	25
10	39	32	27	24	38	31	27	24	31	27	24		30	27	24		30	27	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26922
5°	26953
10°	24866
15°	22164
20°	21869
25°	21963
30°	21993
35°	20978
40°	18600
45°	15088
50°	10916
55°	6741
60°	3294
65°	339
70°	209
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.8	6.1	3.9
10°-20°	85.8	15.1	9.5
20°-30°	128.1	22.6	14.2
30°-40°	148.0	26.1	16.4
40°-50°	114.4	20.2	12.7
50°-60°	50.2	8.8	5.6
60°-70°	5.6	1.0	0.6
70°-80°	0.1	0.0	0.0
80°-90°	0.0	0.0	0.0
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°	248.7	43.9	27.6
0°-40°	396.7	70.0	44.1
0°-60°	561.3	99.0	62.4
0°-90°	567.0	100.0	63.0
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°	567.0	100.0	63.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	376	
5°	375	35
15°	299	86
25°	278	128
35°	240	148
45°	149	114
55°	54	50
65°	2	6
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	376
2.5°	373
5°	375
7.5°	367
10°	342
12.5°	317
15°	299
17.5°	291
20°	287
22.5°	282
25°	278
27.5°	273
30°	266
32.5°	254
35°	240
37.5°	221
40°	199
42.5°	175
45°	149
47.5°	124
50°	98
52.5°	74
55°	54
57.5°	38
60°	23
62.5°	8
65°	2
67.5°	1
70°	1
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)