

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: H36042

Luminaire Tested: **H5ICAT 5001MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H36042
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H5ICAT 5001MB
Description: HALO 5" DIA RECESSED DOWNLIGHT
BLACK BAFFLE
LOW SOCKET SETTING
Light Source: 75PAR30/FL/H 75 WATTS 1100 LUMENS
PAR30 HALOGEN FLOOD
Ballast/Driver: -

Summary

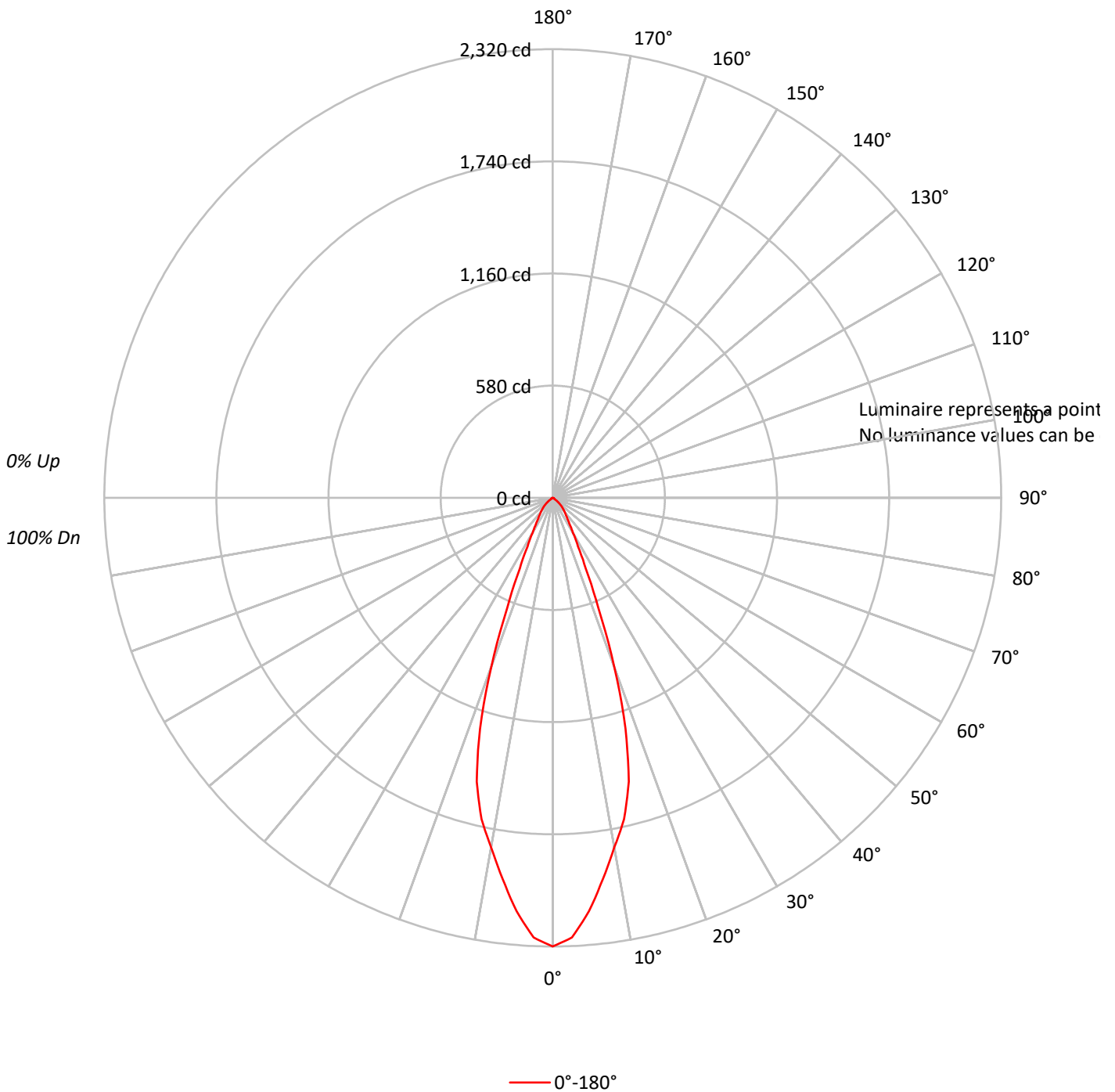
Lumens per Lamp: 1100 (1 lamp)
Luminaire Lumens: 962.9 lumens
Efficiency: 87.5%
Efficacy: 12.8 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.56
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

Input Watts (W): 75
Input Voltage (V): NR
Input Current (A_{in}): 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: H36042
CATALOG NUMBER: H5ICAT 5001MB

Luminous Intensity Polar Plot





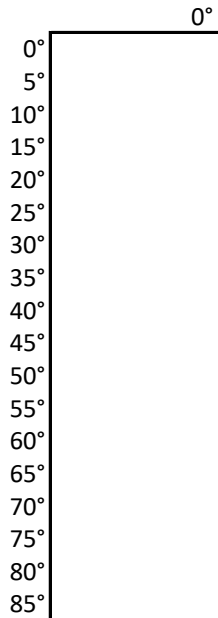
TEST NUMBER: H36042

CATALOG NUMBER: H5ICAT 5001MB

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	104	104	104	104	102	102	102	102	97	97	97		93	93	93		89	89	89	88
1	100	98	96	94	98	96	94	93	92	91	90		89	88	87		86	85	85	83
2	96	92	89	86	94	91	88	85	88	85	83		85	83	82		83	81	80	79
3	92	87	83	80	90	86	82	79	83	81	78		81	79	77		79	77	76	74
4	88	82	78	75	86	81	77	74	79	76	74		78	75	73		76	74	72	71
5	84	78	74	70	83	77	73	70	76	72	70		74	71	69		73	70	68	67
6	81	74	70	67	80	74	69	66	72	69	66		71	68	66		70	67	65	64
7	78	71	66	63	77	70	66	63	69	66	63		68	65	63		67	64	62	61
8	75	68	63	60	74	67	63	60	67	63	60		66	62	60		65	62	60	58
9	72	65	61	58	71	65	60	58	64	60	57		63	60	57		63	59	57	56
10	70	62	58	55	69	62	58	55	61	58	55		61	57	55		60	57	55	54

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: H36042

CATALOG NUMBER: H5ICAT 5001MB

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	194.7	20.2	17.7
10°-20°	402.0	41.8	36.5
20°-30°	206.9	21.5	18.8
30°-40°	86.6	9.0	7.9
40°-50°	52.5	5.5	4.8
50°-60°	16.2	1.7	1.5
60°-70°	3.2	0.3	0.3
70°-80°	0.8	0.1	0.1
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°	803.6	83.5	73.1
0°-40°	890.2	92.5	80.9
0°-60°	958.9	99.6	87.2
0°-90°	962.9	100.0	87.5
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°	962.9	100.0	87.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	2320	
5°	2146	195
15°	1520	402
25°	403	207
35°	133	87
45°	69	52
55°	15	16
65°	3	3
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



TEST NUMBER: H36042

CATALOG NUMBER: H5ICAT 5001MB

CANDELA DISTRIBUTION (FULL):

0°	
0°	2320
2.5°	2276
5°	2146
7.5°	1987
10°	1835
12.5°	1702
15°	1520
17.5°	1252
20°	930
22.5°	614
25°	403
27.5°	283
30°	209
32.5°	163
35°	133
37.5°	112
40°	95
42.5°	82
45°	69
47.5°	55
50°	41
52.5°	27
55°	15
57.5°	8
60°	6
62.5°	4
65°	3
67.5°	2
70°	2
72.5°	1
75°	1
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



TEST NUMBER: H36042

CATALOG NUMBER: H5ICAT 5001MB

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0
115°	0
117.5°	0
120°	0
122.5°	0
125°	0
127.5°	0
130°	0
132.5°	0
135°	0
137.5°	0
140°	0
142.5°	0
145°	0
147.5°	0
150°	0
152.5°	0
155°	0
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)