

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: H36029

Luminaire Tested: **H5T 5020BL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H36029
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H5T 5020BL
Description: HALO 5" DIA RECESSED DOWNLIGHT
SPECULAR BLACK REFLECTOR
LOW SOCKET SETTING
Light Source: 75PAR30/FL/H 75 WATTS 1100 LUMENS
PAR30 HALOGEN FLOOD
Ballast/Driver: -

Summary

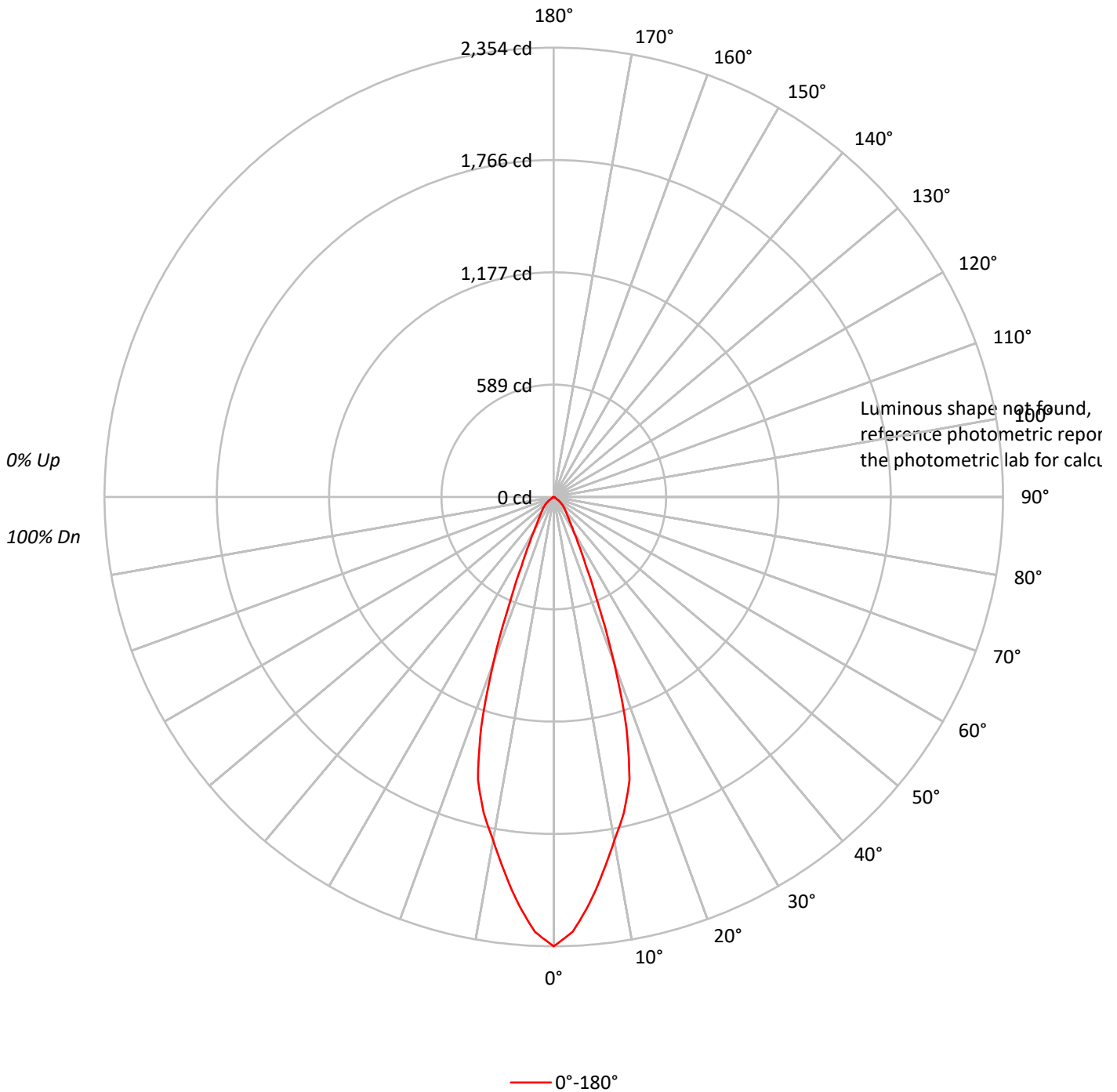
Lumens per Lamp: 1100 (1 lamp)
Luminaire Lumens: 971.5 lumens
Efficiency: 88.3%
Efficacy: 13.0 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.56
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0 '
CIE Type: Direct

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



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Luminous Intensity Polar Plot



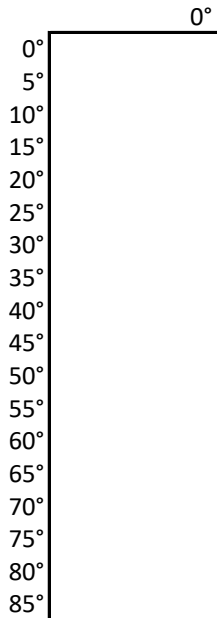


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	105	105	105	105	103	103	103	103	98	98	98	94	94	94	90	90	90	88
1	101	99	97	95	99	97	95	93	93	92	90	90	89	88	87	86	85	84
2	97	93	89	87	95	91	88	86	88	86	84	86	84	82	83	82	80	79
3	92	87	83	80	91	86	83	80	84	81	79	82	79	77	80	78	76	75
4	89	83	78	75	87	82	78	75	80	76	74	78	75	73	77	74	72	71
5	85	78	74	71	84	78	73	70	76	73	70	75	72	69	73	71	69	67
6	81	75	70	67	80	74	70	67	73	69	66	72	68	66	70	68	65	64
7	78	71	67	63	77	71	66	63	70	66	63	69	65	63	68	65	62	61
8	75	68	64	60	74	68	63	60	67	63	60	66	62	60	65	62	60	59
9	73	65	61	58	72	65	61	58	64	60	57	63	60	57	63	59	57	56
10	70	63	58	55	69	62	58	55	62	58	55	61	57	55	60	57	55	54

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	194.4	20.0	17.7
10°-20°	403.2	41.5	36.7
20°-30°	204.8	21.1	18.6
30°-40°	86.2	8.9	7.8
40°-50°	56.2	5.8	5.1
50°-60°	21.7	2.2	2.0
60°-70°	4.2	0.4	0.4
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°	802.4	82.6	72.9
0°-40°	888.6	91.5	80.8
0°-60°	966.5	99.5	87.9
0°-90°	971.5	100.0	88.3
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°	971.5	100.0	88.3

CANDELA DISTRIBUTION:

	0°	Flux
0°	2354	
5°	2139	194
15°	1534	403
25°	401	205
35°	132	86
45°	74	56
55°	22	22
65°	4	4
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



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2354
2.5°	2280
5°	2139
7.5°	1981
10°	1827
12.5°	1695
15°	1534
17.5°	1266
20°	923
22.5°	605
25°	401
27.5°	280
30°	207
32.5°	162
35°	132
37.5°	111
40°	97
42.5°	85
45°	74
47.5°	61
50°	49
52.5°	35
55°	22
57.5°	13
60°	8
62.5°	5
65°	4
67.5°	3
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



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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)