

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: P20167

Luminaire Tested: **ML712840TUNVD010-492PS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20167
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712840TUNVD010-492PS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE ALUMINUM BAFFLE
DESIGN SHOWER TRIM AND FROSTED GLASS LENS WITH MODULE
ML712840TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

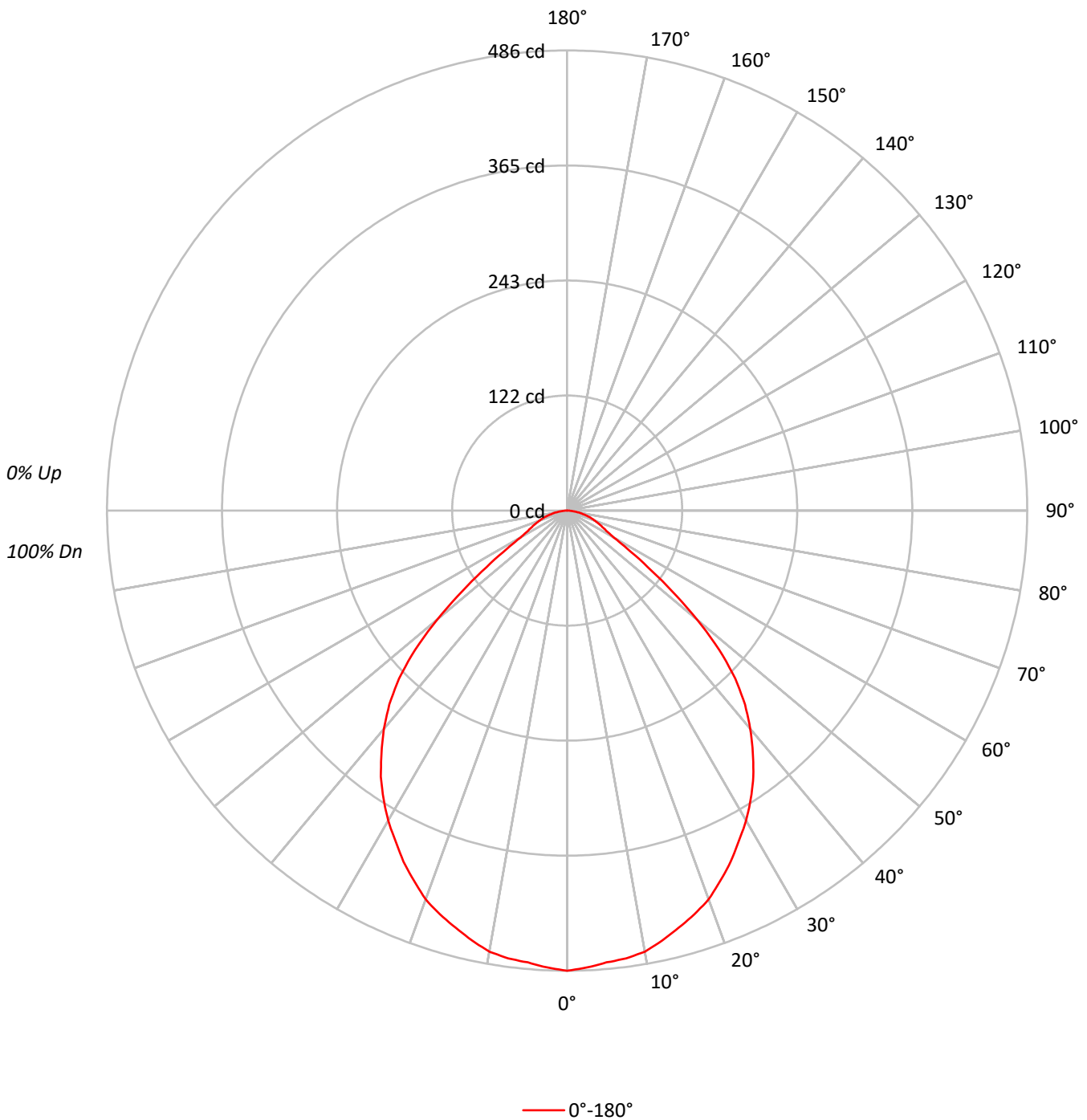
Lumens per Lamp: 932 (1 lamp)
Luminaire Lumens: 933.3 lumens
Efficiency: 100.1%
Efficacy: 35.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.2
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	107	107	107	102	102	102	100				100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	77	74	70	68				68
4	89	79	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61				61
5	82	71	64	58	81	70	63	57	68	62	57	66	61	56	65	60	56	54				54
6	77	65	57	52	75	64	57	51	62	56	51	61	55	51	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43				43
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	39				39
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	37	36				36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26643
5°	26359
10°	26330
15°	25880
20°	25494
25°	24739
30°	23928
35°	22955
40°	21540
45°	19459
50°	15266
55°	9940
60°	6249
65°	5318
70°	4969
75°	4660
80°	4104
85°	3145



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	45.6	4.9	4.9
10°-20°	128.7	13.8	13.8
20°-30°	188.1	20.2	20.2
30°-40°	213.5	22.9	22.9
40°-50°	189.8	20.3	20.4
50°-60°	96.7	10.4	10.4
60°-70°	41.5	4.5	4.5
70°-80°	23.2	2.5	2.5
80°-90°	6.1	0.7	0.7
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°	362.4	38.8	38.9
0°-40°	575.9	61.7	61.8
0°-60°	862.4	92.4	92.5
0°-90°	933.3	100.0	100.1
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°	933.3	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	486	
5°	479	46
15°	456	129
25°	409	188
35°	343	214
45°	251	190
55°	104	97
65°	41	42
75°	22	23
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	486
2.5°	483
5°	479
7.5°	477
10°	473
12.5°	465
15°	456
17.5°	447
20°	437
22.5°	423
25°	409
27.5°	393
30°	378
32.5°	361
35°	343
37.5°	322
40°	301
42.5°	278
45°	251
47.5°	218
50°	179
52.5°	139
55°	104
57.5°	75
60°	57
62.5°	47
65°	41
67.5°	36
70°	31
72.5°	27
75°	22
77.5°	17
80°	13
82.5°	9
85°	5
87.5°	2
90°	0

(END OF REPORT)