

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: P20125

Luminaire Tested: **ML712830TUNVD010-493WBS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20125
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712830TUNVD010-493WBS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN
LOWER TRIM REFLECTOR, SPECULAR UPPER TRIM REFLECTOR, AND
SOLITE GLASS LENS WITH MODULE ML712830TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
(1)24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 1320 (1 lamp)
Luminaire Lumens: 1321.4 lumens
Efficiency: 100.1%
Efficacy: 48.6 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

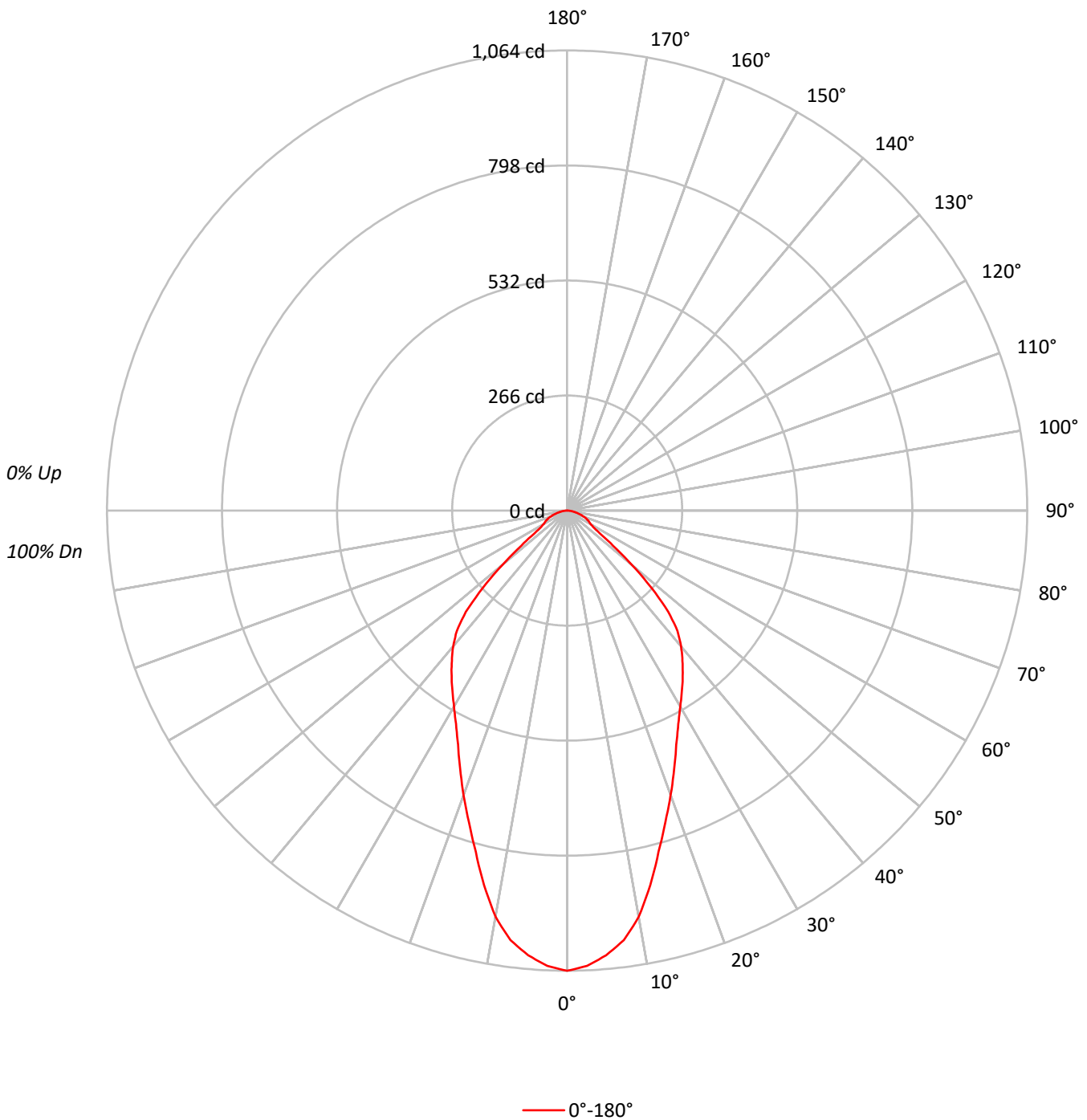
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97		98	96	94		95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	77	95	87	82	77	85	80	76		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67		75	71	67		73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		68	63	60	58
6	79	68	61	56	78	67	60	55	66	60	55		64	59	55		63	58	54	52
7	74	63	56	51	73	62	55	50	61	55	50		60	54	50		58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	43	65	54	47	42	53	47	42		52	46	42		51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58329
5°	56791
10°	53105
15°	46368
20°	40837
25°	36111
30°	33106
35°	31186
40°	29341
45°	25662
50°	16631
55°	8889
60°	6907
65°	6875
70°	6572
75°	5719
80°	5051
85°	3774



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	96.2	7.3	7.3
10°-20°	229.1	17.3	17.4
20°-30°	276.5	20.9	20.9
30°-40°	291.4	22.1	22.1
40°-50°	244.8	18.5	18.5
50°-60°	94.9	7.2	7.2
60°-70°	52.0	3.9	3.9
70°-80°	29.1	2.2	2.2
80°-90°	7.3	0.6	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°	601.8	45.5	45.6
0°-40°	893.3	67.6	67.7
0°-60°	1233.0	93.3	93.4
0°-90°	1321.4	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°	1321.4	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	1064	
5°	1032	96
15°	817	229
25°	597	277
35°	466	291
45°	331	245
55°	93	95
65°	53	52
75°	27	29
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1064
2.5°	1054
5°	1032
7.5°	1002
10°	954
12.5°	887
15°	817
17.5°	755
20°	700
22.5°	646
25°	597
27.5°	556
30°	523
32.5°	494
35°	466
37.5°	438
40°	410
42.5°	378
45°	331
47.5°	265
50°	195
52.5°	134
55°	93
57.5°	72
60°	63
62.5°	58
65°	53
67.5°	47
70°	41
72.5°	34
75°	27
77.5°	21
80°	16
82.5°	11
85°	6
87.5°	2
90°	0

(END OF REPORT)