

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: P20128

Luminaire Tested: **ML712830TUNVD010-493HS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20128
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712830TUNVD010-493HS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH HAZE FINISH 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

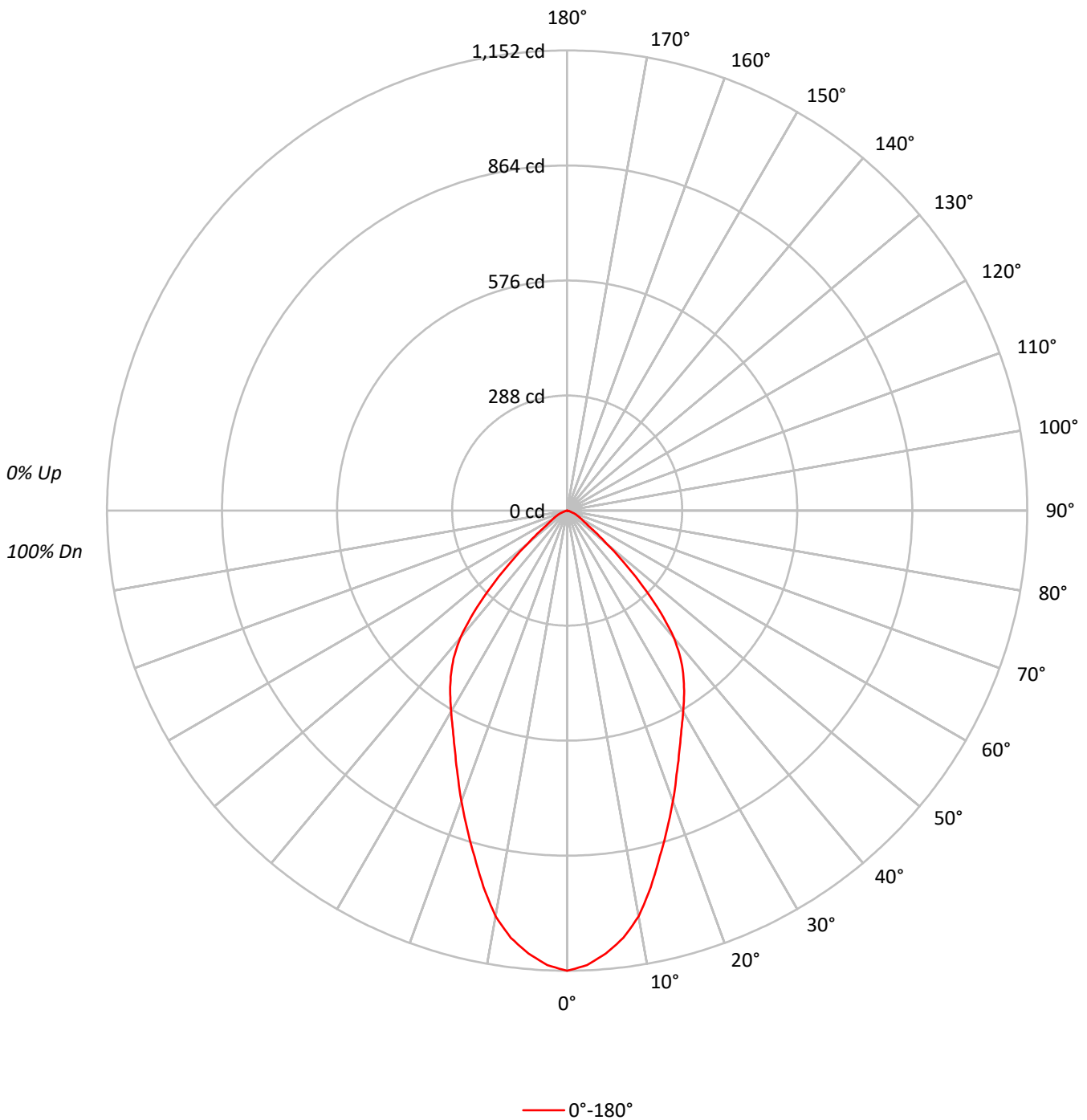
Lumens per Lamp: 1275 (1 lamp)
Luminaire Lumens: 1276.5 lumens
Efficiency: 100.1%
Efficacy: 48.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.6
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		107	107	107		102	102	102	100
1	113	110	107	104	110	107	105	102	103	101	99		99	98	96		96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80		85	81	78		83	80	77	75
4	93	85	78	73	91	83	77	73	81	76	72		79	75	71		77	73	70	68
5	88	78	71	66	86	77	71	66	75	69	65		73	68	65		72	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	78	67	60	55	76	66	60	55	65	59	55		63	58	54		62	58	54	52
8	73	62	55	51	72	62	55	51	60	55	50		59	54	50		58	53	50	48
9	69	58	51	47	68	58	51	47	57	51	47		56	50	46		55	50	46	45
10	65	54	48	43	64	54	48	43	53	47	43		52	47	43		51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	63153
5°	61248
10°	57392
15°	50852
20°	45154
25°	40164
30°	36778
35°	33997
40°	29770
45°	20777
50°	11087
55°	5830
60°	4276
65°	3243
70°	2084
75°	847
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	103.7	8.1	8.1
10°-20°	251.3	19.7	19.7
20°-30°	307.1	24.1	24.1
30°-40°	315.0	24.7	24.7
40°-50°	206.2	16.2	16.2
50°-60°	62.2	4.9	4.9
60°-70°	25.1	2.0	2.0
70°-80°	5.5	0.4	0.4
80°-90°	0.4	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°	662.1	51.9	51.9
0°-40°	977.1	76.5	76.6
0°-60°	1245.5	97.6	97.7
0°-90°	1276.5	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°	1276.5	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	1152	
5°	1113	104
15°	896	251
25°	664	307
35°	508	315
45°	268	206
55°	61	62
65°	25	25
75°	4	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1152
2.5°	1139
5°	1113
7.5°	1079
10°	1031
12.5°	966
15°	896
17.5°	834
20°	774
22.5°	716
25°	664
27.5°	619
30°	581
32.5°	545
35°	508
37.5°	467
40°	416
42.5°	347
45°	268
47.5°	193
50°	130
52.5°	87
55°	61
57.5°	48
60°	39
62.5°	32
65°	25
67.5°	19
70°	13
72.5°	8
75°	4
77.5°	2
80°	1
82.5°	1
85°	0
87.5°	0
90°	0

(END OF REPORT)