

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P210194

Luminaire Tested: **PR820D010 - PR8M12WDMB - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29051)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR820D010 - PR8M12WDMB - 3000K
Description: HALO 8" ROUND DOWNLIGHT, WIDE LENS, MATTE BLACK FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1975.5 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.39
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

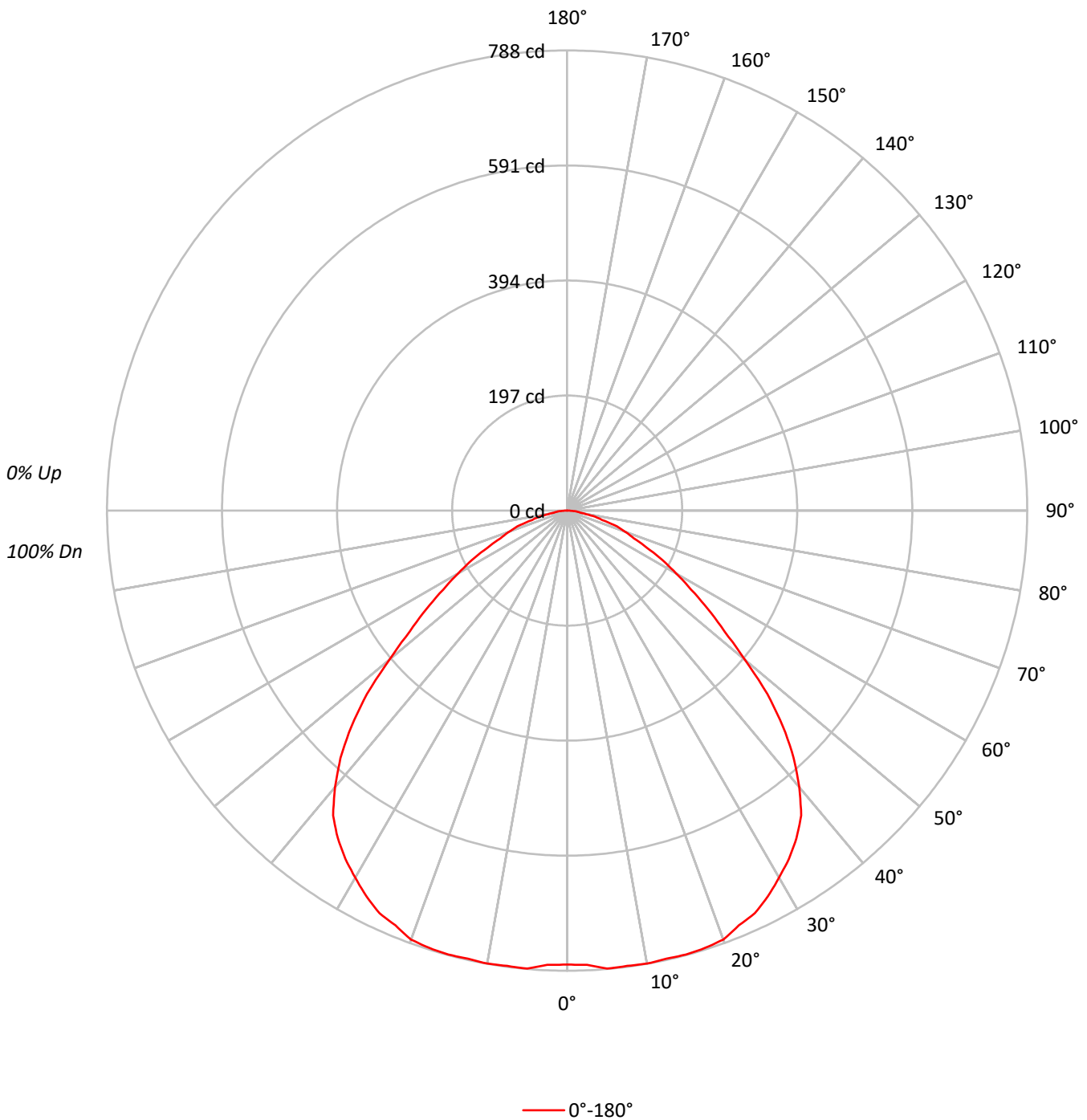
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23969
5°	24370
10°	24664
15°	25121
20°	25652
25°	25886
30°	25847
35°	25783
40°	24885
45°	22790
50°	19040
55°	15827
60°	13303
65°	10989
70°	9449
75°	7423
80°	5132
85°	5413



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	3.8
10°-20°	222.7	11.3
20°-30°	349.7	17.7
30°-40°	426.3	21.6
40°-50°	398.4	20.2
50°-60°	265.7	13.5
60°-70°	152.9	7.7
70°-80°	70.5	3.6
80°-90°	14.3	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	647.4	32.8
0°-40°	1073.6	54.3
0°-60°	1737.8	88.0
0°-90°	1975.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1975.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	777	
5°	787	75
15°	787	223
25°	761	350
35°	685	426
45°	523	398
55°	294	266
65°	151	153
75°	62	71
85°	15	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	777.3
2.5°	778.5
5°	787.3
7.5°	786.5
10°	787.7
12.5°	786.1
15°	786.9
17.5°	785.3
20°	781.7
22.5°	768.8
25°	760.8
27.5°	744.7
30°	725.9
32.5°	707.0
35°	684.9
37.5°	658.4
40°	618.2
42.5°	574.4
45°	522.6
47.5°	465.2
50°	396.9
52.5°	339.0
55°	294.4
57.5°	251.9
60°	215.7
62.5°	184.4
65°	150.6
67.5°	123.7
70°	104.8
72.5°	89.2
75°	62.3
77.5°	49.4
80°	28.9
82.5°	18.5
85°	15.3
87.5°	4.4
90°	0.0

(END OF REPORT)