

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: P210099

Luminaire Tested: **PR830D010 - PR8M34MDMW - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29049)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR830D010 - PR8M34MDMW - 3000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE WHITE FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3217.4 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

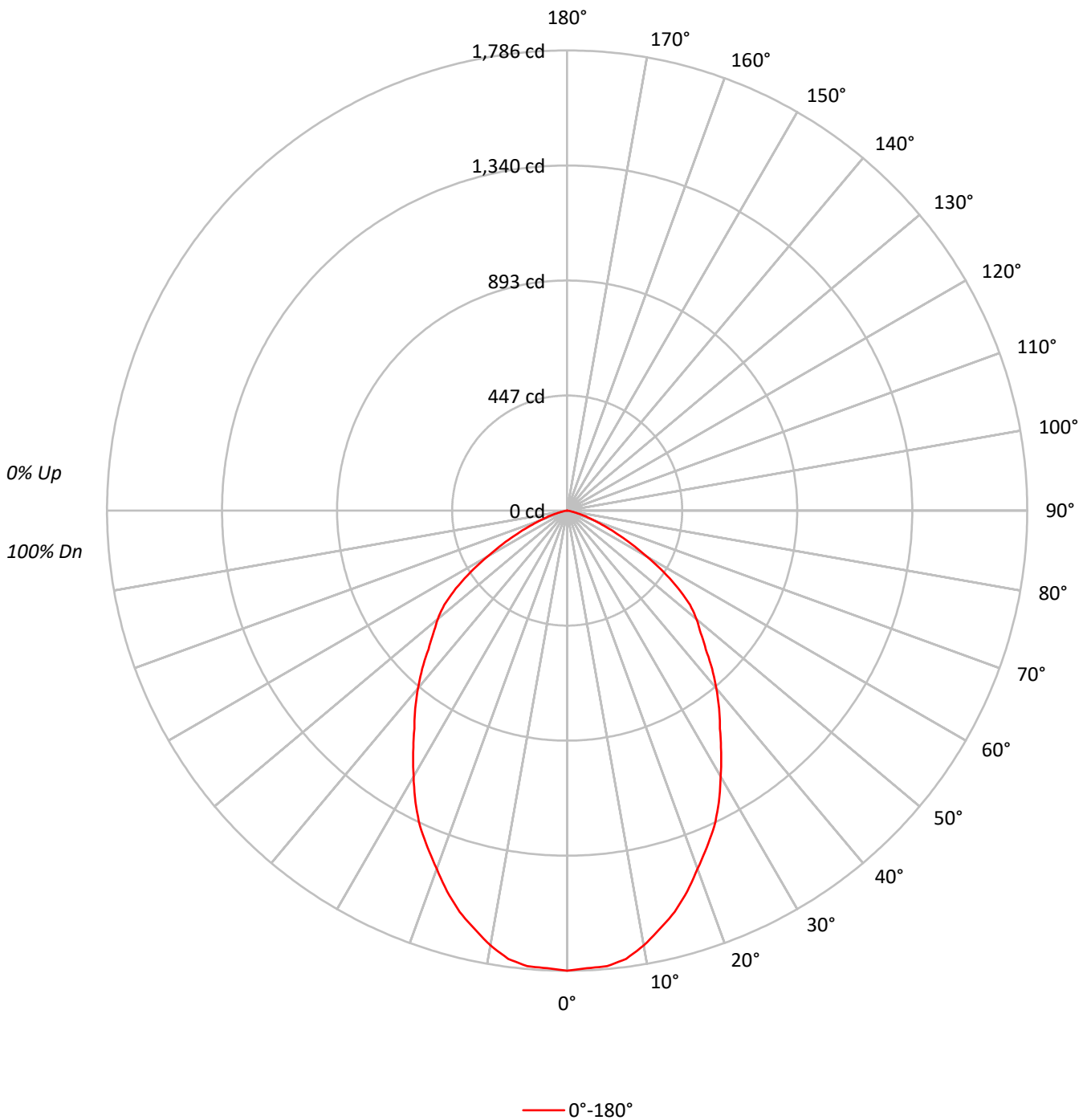
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	96	91	86	100	94	89	85	91	87	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50		60	54	49		58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55067
5°	54944
10°	53656
15°	51478
20°	48554
25°	45994
30°	42450
35°	38928
40°	36249
45°	33191
50°	31456
55°	28338
60°	22134
65°	15593
70°	9827
75°	5504
80°	1545
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	5.2
10°-20°	451.8	14.0
20°-30°	618.6	19.2
30°-40°	649.9	20.2
40°-50°	592.7	18.4
50°-60°	463.9	14.4
60°-70°	217.9	6.8
70°-80°	53.8	1.7
80°-90°	1.4	0.0
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°	1237.8	38.5
0°-40°	1887.8	58.7
0°-60°	2944.4	91.5
0°-90°	3217.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3217.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1786	
5°	1775	167
15°	1612	452
25°	1352	619
35°	1034	650
45°	761	593
55°	527	464
65°	214	218
75°	46	54
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1785.8
2.5°	1777.9
5°	1775.0
7.5°	1754.7
10°	1713.6
12.5°	1663.0
15°	1612.5
17.5°	1549.7
20°	1479.6
22.5°	1415.3
25°	1351.8
27.5°	1276.0
30°	1192.2
32.5°	1112.1
35°	1034.1
37.5°	968.4
40°	900.5
42.5°	832.6
45°	761.1
47.5°	703.3
50°	655.7
52.5°	601.5
55°	527.1
57.5°	444.1
60°	358.9
62.5°	282.3
65°	213.7
67.5°	154.5
70°	109.0
72.5°	74.4
75°	46.2
77.5°	25.3
80°	8.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)