

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: P210126

Luminaire Tested: **PR830D010 - PR8M34MDMB - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210126
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 - PR8M34MDMB - 4000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3061.6 lumens
Efficiency: N/A
Efficacy: 107.4 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

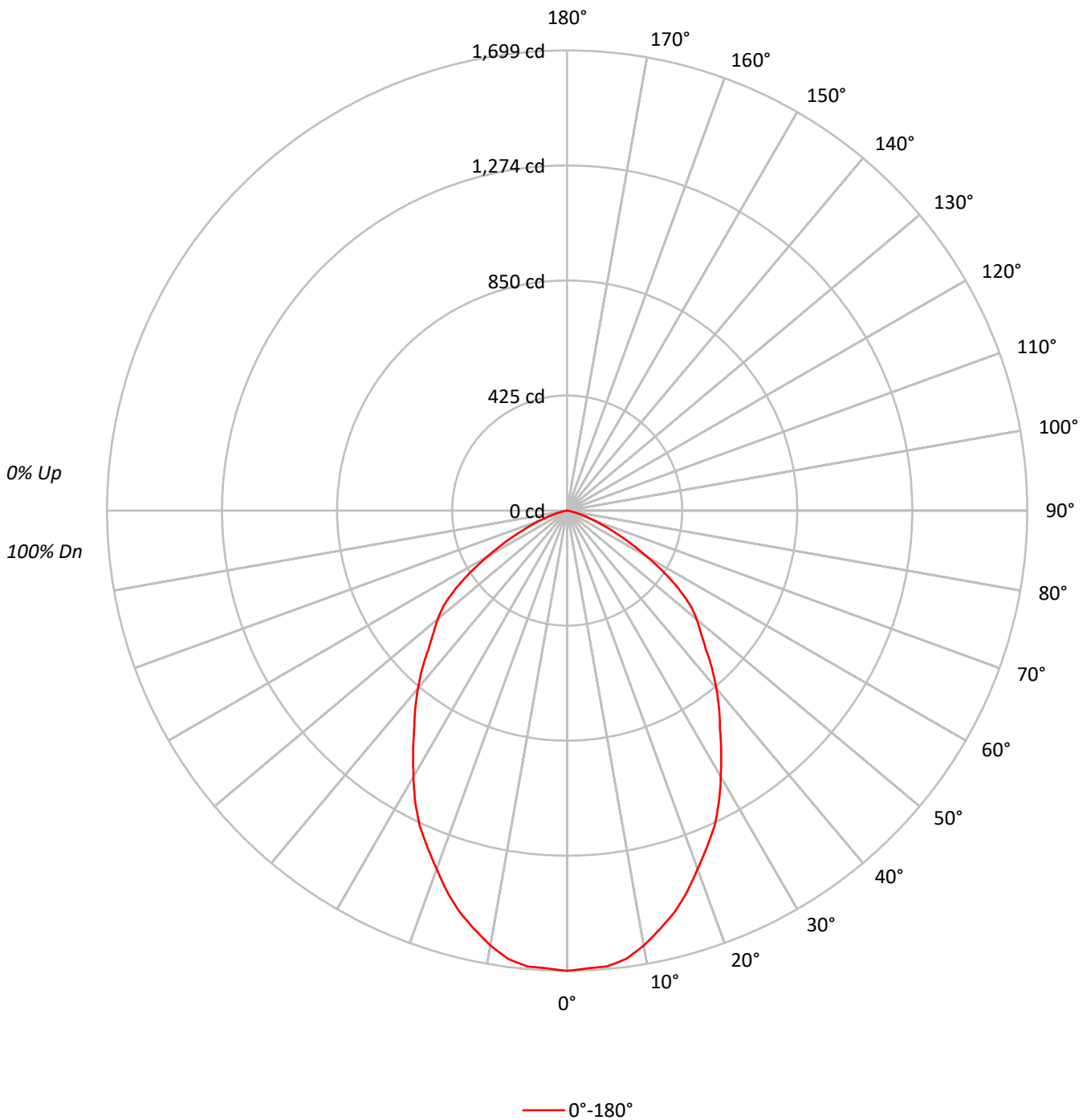
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	52400
5°	52281
10°	51057
15°	48984
20°	46201
25°	43765
30°	40396
35°	37042
40°	34494
45°	31582
50°	29930
55°	26967
60°	21061
65°	14841
70°	9359
75°	5242
80°	1456
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	5.2
10°-20°	429.9	14.0
20°-30°	588.6	19.2
30°-40°	618.4	20.2
40°-50°	564.0	18.4
50°-60°	441.5	14.4
60°-70°	207.4	6.8
70°-80°	51.2	1.7
80°-90°	1.3	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°	1177.9	38.5
0°-40°	1796.3	58.7
0°-60°	2801.8	91.5
0°-90°	3061.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3061.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1699	
5°	1689	159
15°	1534	430
25°	1286	589
35°	984	618
45°	724	564
55°	502	441
65°	203	207
75°	44	51
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1699.3
2.5°	1691.7
5°	1689.0
7.5°	1669.7
10°	1630.6
12.5°	1582.5
15°	1534.4
17.5°	1474.6
20°	1407.9
22.5°	1346.8
25°	1286.3
27.5°	1214.2
30°	1134.5
32.5°	1058.2
35°	984.0
37.5°	921.4
40°	856.9
42.5°	792.3
45°	724.2
47.5°	669.3
50°	623.9
52.5°	572.4
55°	501.6
57.5°	422.6
60°	341.5
62.5°	268.7
65°	203.4
67.5°	147.0
70°	103.8
72.5°	70.8
75°	44.0
77.5°	24.0
80°	8.2
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)