

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: P210124

Luminaire Tested: **PR830D010 - PR8M34MDMB - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210124
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 - 3000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM 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: 2917.5 lumens
Efficiency: N/A
Efficacy: 102.4 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

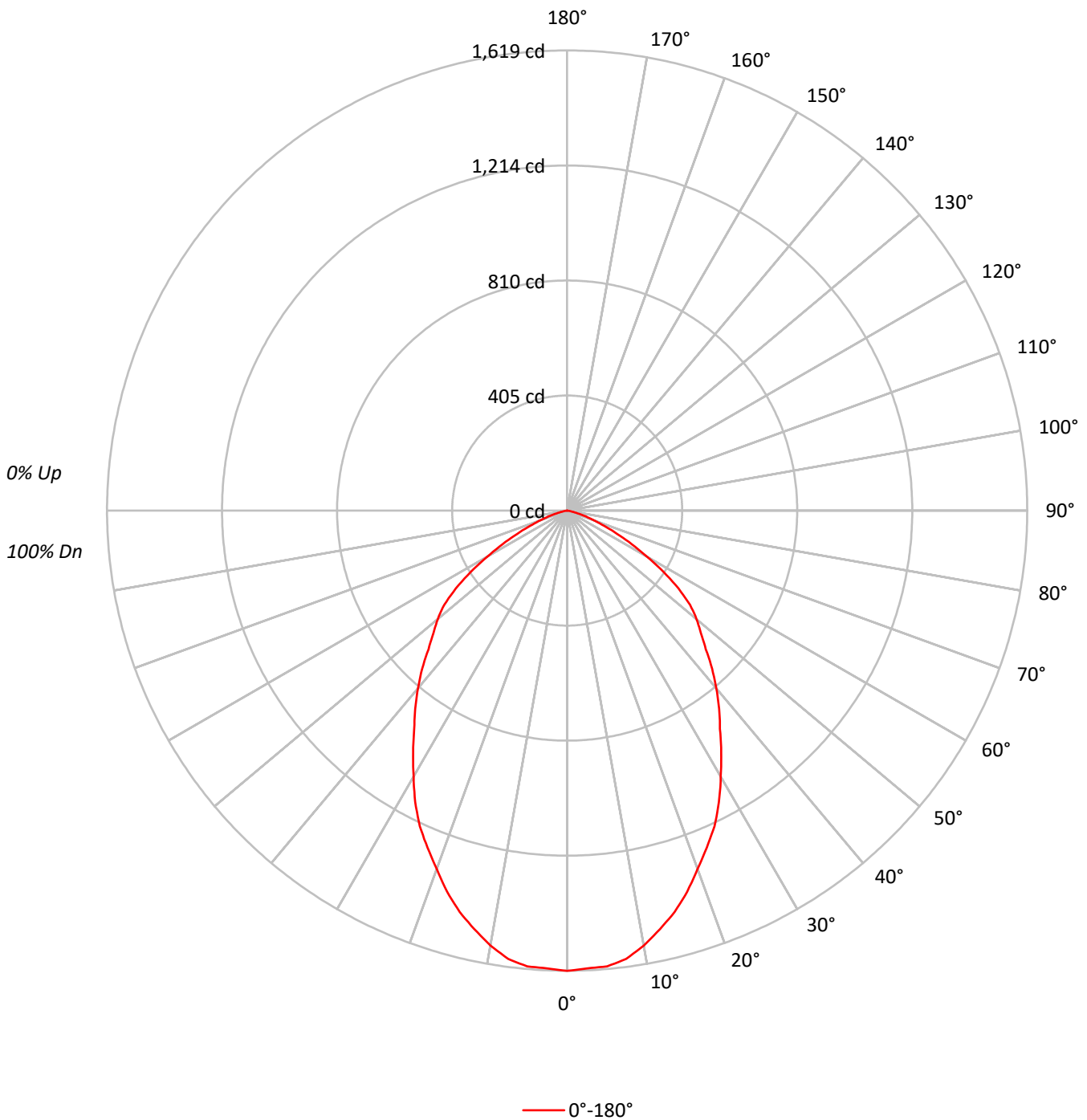
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	49933
5°	49821
10°	48653
15°	46676
20°	44028
25°	41707
30°	38491
35°	35299
40°	32867
45°	30095
50°	28520
55°	25698
60°	20068
65°	14141
70°	8917
75°	4992
80°	1403
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	5.2
10°-20°	409.6	14.0
20°-30°	560.9	19.2
30°-40°	589.3	20.2
40°-50°	537.5	18.4
50°-60°	420.7	14.4
60°-70°	197.6	6.8
70°-80°	48.7	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°	1122.4	38.5
0°-40°	1711.8	58.7
0°-60°	2669.9	91.5
0°-90°	2917.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2917.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1619	
5°	1610	152
15°	1462	410
25°	1226	561
35°	938	589
45°	690	537
55°	478	421
65°	194	198
75°	42	49
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1619.3
2.5°	1612.1
5°	1609.5
7.5°	1591.1
10°	1553.8
12.5°	1508.0
15°	1462.1
17.5°	1405.2
20°	1341.7
22.5°	1283.4
25°	1225.8
27.5°	1157.0
30°	1081.0
32.5°	1008.4
35°	937.7
37.5°	878.1
40°	816.5
42.5°	755.0
45°	690.1
47.5°	637.8
50°	594.5
52.5°	545.4
55°	478.0
57.5°	402.7
60°	325.4
62.5°	256.0
65°	193.8
67.5°	140.1
70°	98.9
72.5°	67.4
75°	41.9
77.5°	22.9
80°	7.9
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)