

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: P345391

Luminaire Tested: **PR4FS24D010 PR4M24WD9FSBZ 4000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24WD9FSBZ 4000Lm3000K
Description: PR4 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2520.1 lumens
Efficiency: N/A
Efficacy: 56.0 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.57
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

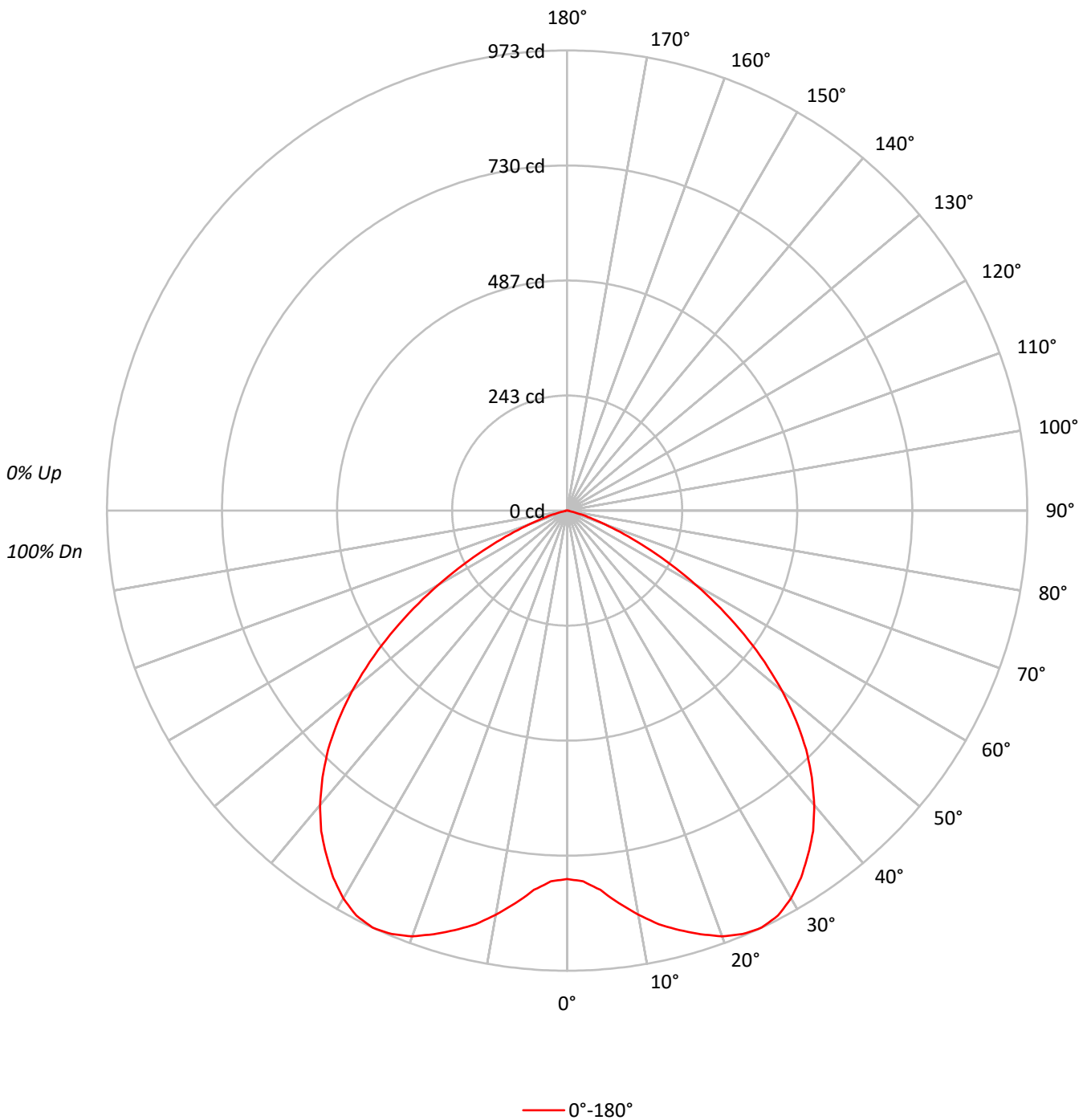
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	63	51	42	37	62	50	42	37	49	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	68121
5°	70699
10°	77050
15°	83166
20°	89174
25°	93916
30°	95618
35°	94842
40°	92808
45°	88409
50°	80831
55°	69600
60°	55088
65°	38248
70°	21713
75°	8922
80°	1914
85°	3814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	3.1
10°-20°	261.1	10.4
20°-30°	446.6	17.7
30°-40°	554.7	22.0
40°-50°	547.5	21.7
50°-60°	406.2	16.1
60°-70°	187.6	7.4
70°-80°	34.3	1.4
80°-90°	3.1	0.1
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°	786.6	31.2
0°-40°	1341.4	53.2
0°-60°	2295.1	91.1
0°-90°	2520.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2520.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	779	
5°	805	79
15°	918	261
25°	973	447
35°	888	555
45°	715	548
55°	456	406
65°	185	188
75°	26	34
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	778.8
2.5°	784.5
5°	805.2
7.5°	837.3
10°	867.5
12.5°	895.8
15°	918.4
17.5°	939.1
20°	958.0
22.5°	969.3
25°	973.1
27.5°	965.5
30°	946.7
32.5°	920.3
35°	888.2
37.5°	854.3
40°	812.8
42.5°	765.6
45°	714.7
47.5°	656.3
50°	594.0
52.5°	526.1
55°	456.4
57.5°	384.7
60°	314.9
62.5°	247.0
65°	184.8
67.5°	130.1
70°	84.9
72.5°	50.9
75°	26.4
77.5°	9.4
80°	3.8
82.5°	3.8
85°	3.8
87.5°	1.9
90°	0.0

(END OF REPORT)