

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: PORTFOLIO

Report Number: P251499

Luminaire Tested: **LD8B70D010 ER8B70940 8LBS0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-18)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70940 8LBS0MW  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7451.0 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.27  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

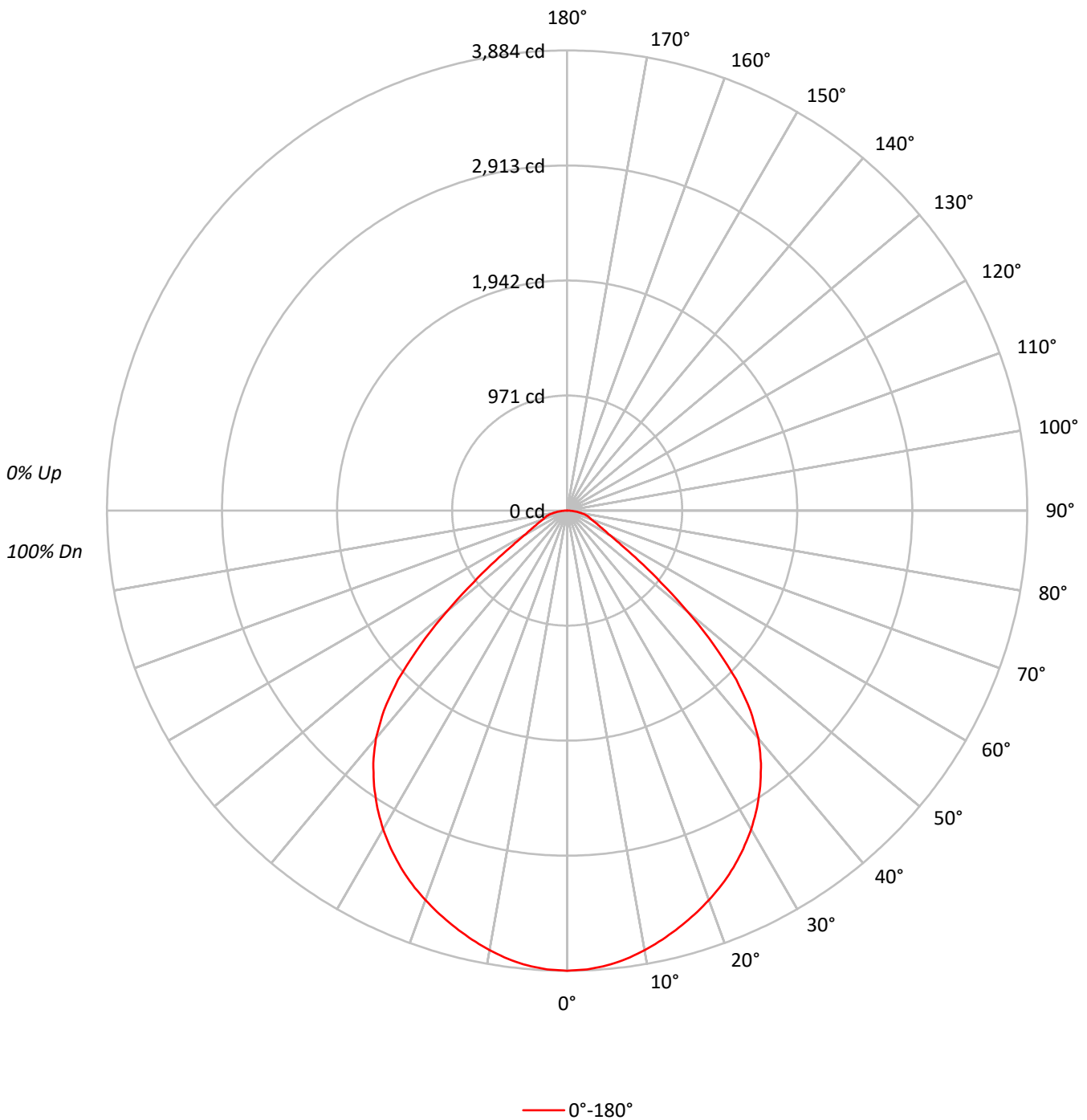
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	96	97	95	93	94	92	91	89
2	103	97	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	119784
5°	119303
10°	117968
15°	116328
20°	114811
25°	113066
30°	110605
35°	106898
40°	101045
45°	88008
50°	63641
55°	39622
60°	25804
65°	21196
70°	19547
75°	21184
80°	21558
85°	19176



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.1	4.9
10°-20°	1028.0	13.8
20°-30°	1529.2	20.5
30°-40°	1770.0	23.8
40°-50°	1518.8	20.4
50°-60°	698.4	9.4
60°-70°	296.5	4.0
70°-80°	183.7	2.5
80°-90°	61.3	0.8
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°	2922.3	39.2
0°-40°	4692.3	63.0
0°-60°	6909.5	92.7
0°-90°	7451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7451.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3884	
5°	3854	365
15°	3644	1028
25°	3323	1529
35°	2840	1770
45°	2018	1519
55°	737	698
65°	290	297
75°	178	184
85°	54	61
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3884.5
2.5°	3875.9
5°	3854.2
7.5°	3817.3
10°	3767.5
12.5°	3708.9
15°	3643.9
17.5°	3574.5
20°	3498.7
22.5°	3416.3
25°	3323.1
27.5°	3219.0
30°	3106.3
32.5°	2980.6
35°	2839.7
37.5°	2688.0
40°	2510.2
42.5°	2291.3
45°	2018.1
47.5°	1682.1
50°	1326.6
52.5°	997.1
55°	737.0
57.5°	541.9
60°	418.4
62.5°	342.5
65°	290.5
67.5°	249.3
70°	216.8
72.5°	197.3
75°	177.8
77.5°	151.7
80°	121.4
82.5°	86.7
85°	54.2
87.5°	23.8
90°	0.0

(END OF REPORT)