

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: P251191

Luminaire Tested: **LD8B70D010 ER8B70940 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-15)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70940 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7490.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

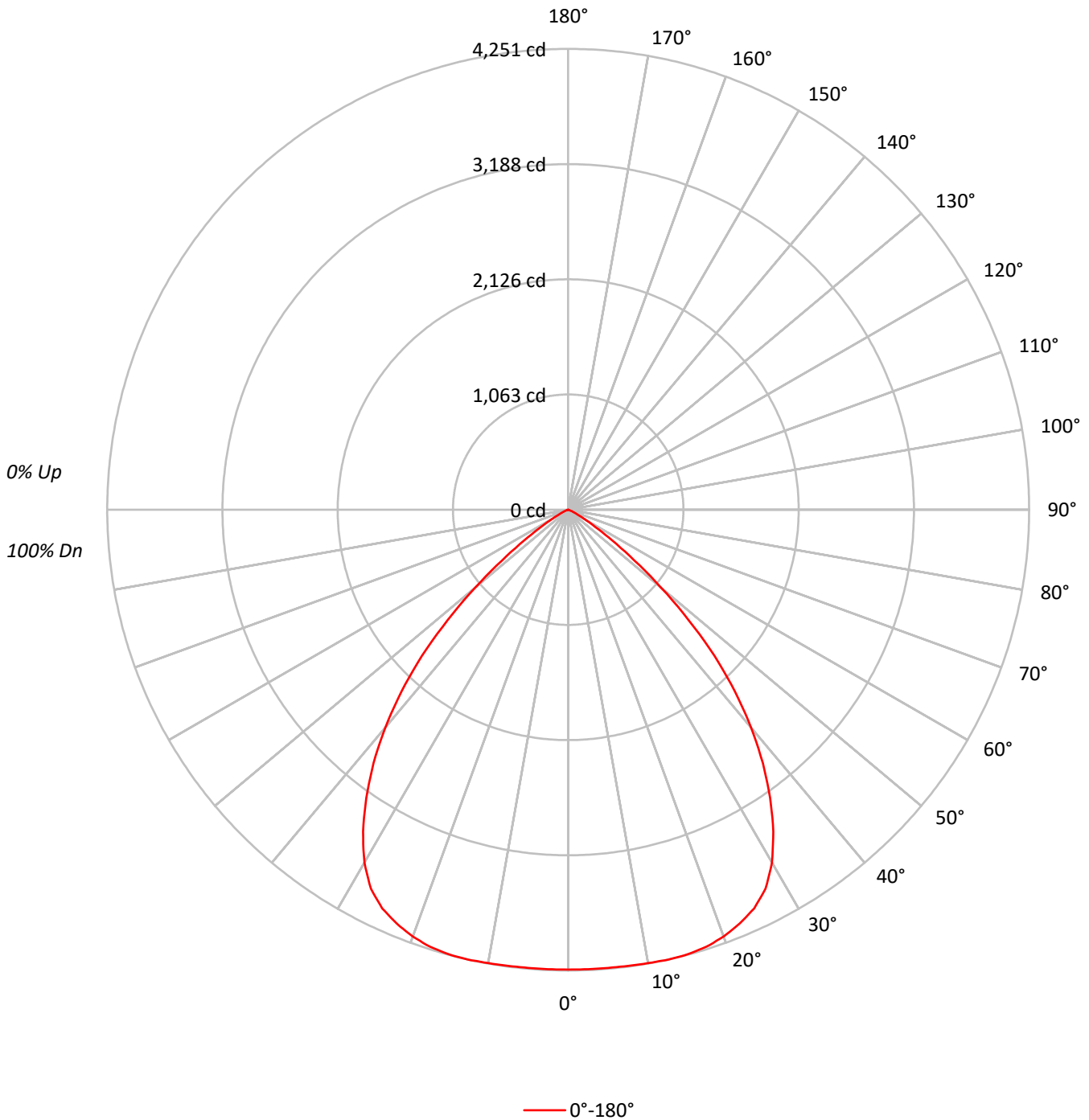
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88		91	88	86		89	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78		84	80	77		82	78	76	74
4	92	83	76	71	90	82	76	71	79	74	70		77	73	69		75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70	65	62	60
6	80	70	63	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	38

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

	0°
0°	130820
5°	131320
10°	132976
15°	135575
20°	137509
25°	138077
30°	133846
35°	122163
40°	105675
45°	83193
50°	53662
55°	26338
60°	10830
65°	4743
70°	1370
75°	512
80°	391
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.1	5.4
10°-20°	1200.2	16.0
20°-30°	1858.2	24.8
30°-40°	2013.0	26.9
40°-50°	1448.5	19.3
50°-60°	484.7	6.5
60°-70°	73.2	1.0
70°-80°	6.3	0.1
80°-90°	0.9	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°	3463.4	46.2
0°-40°	5476.4	73.1
0°-60°	7409.6	98.9
0°-90°	7490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7490.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4242	
5°	4242	405
15°	4247	1200
25°	4058	1858
35°	3245	2013
45°	1908	1449
55°	490	485
65°	65	73
75°	4	6
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4242.4
2.5°	4242.4
5°	4242.4
7.5°	4244.6
10°	4246.8
12.5°	4251.1
15°	4246.8
17.5°	4229.4
20°	4190.4
22.5°	4131.9
25°	4058.2
27.5°	3941.1
30°	3759.0
32.5°	3520.5
35°	3245.2
37.5°	2948.2
40°	2625.2
42.5°	2278.4
45°	1907.7
47.5°	1506.6
50°	1118.6
52.5°	767.4
55°	489.9
57.5°	292.7
60°	175.6
62.5°	106.2
65°	65.0
67.5°	32.5
70°	15.2
72.5°	6.5
75°	4.3
77.5°	4.3
80°	2.2
82.5°	2.2
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)