

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: P251121

Luminaire Tested: **LD8B70D010 ER8B70940 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P200903)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70940 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6924.0 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

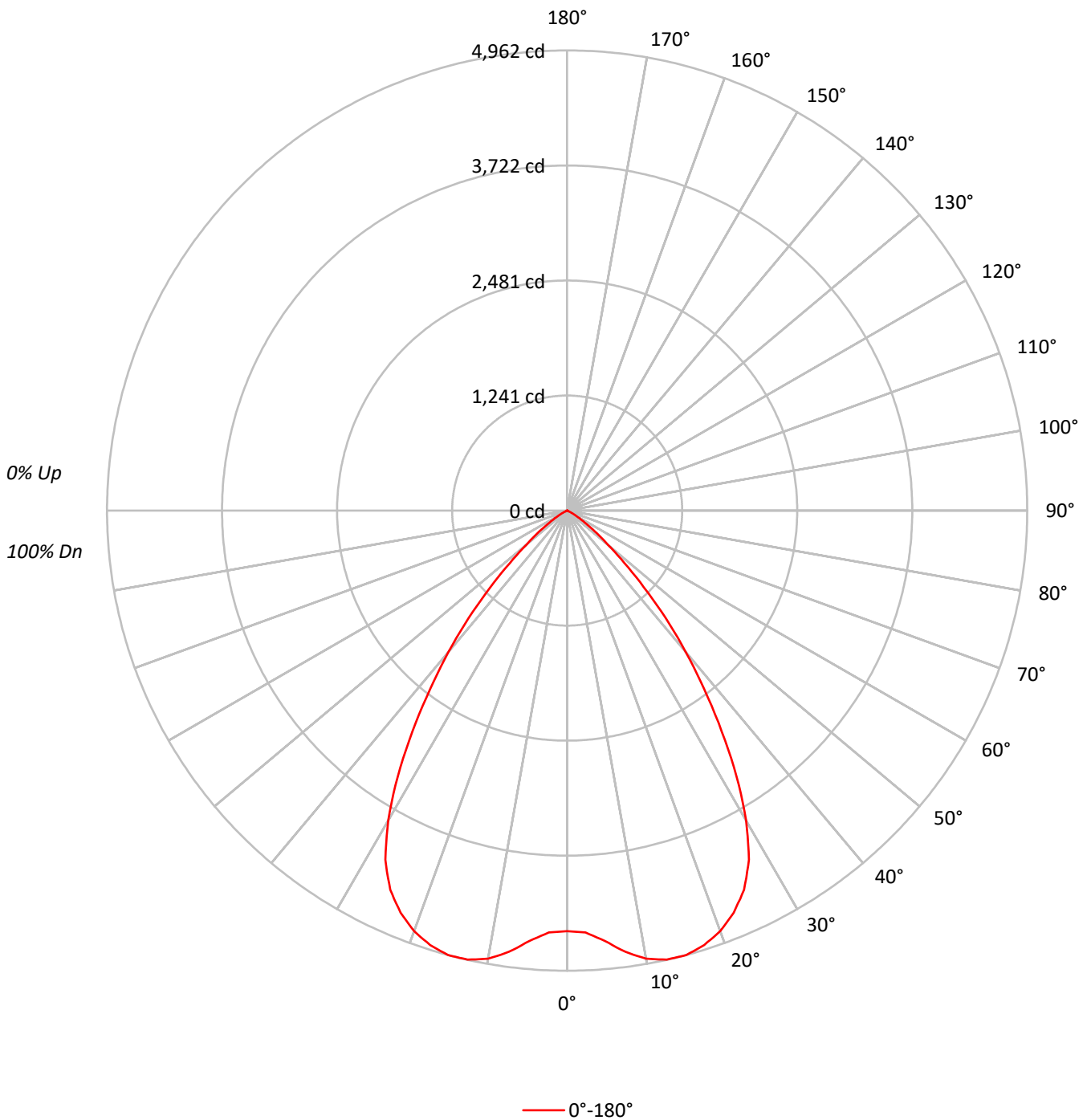
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100		100	98	97		96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84	81	78	77
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78	75	72	70
5	89	79	73	68	87	78	72	67	76	71	67		75	70	66		73	69	66	64
6	83	73	67	62	82	73	66	62	71	65	61		69	64	61		68	64	60	59
7	78	68	61	57	77	67	61	56	66	60	56		65	60	56		64	59	55	54
8	74	63	57	52	73	63	56	52	62	56	52		61	55	51		59	55	51	50
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56	51	47	46
10	66	55	49	45	65	55	49	44	54	48	44		53	48	44		52	48	44	43

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

	0°
0°	139870
5°	144156
10°	153654
15°	158395
20°	158383
25°	153544
30°	137424
35°	109458
40°	79977
45°	51084
50°	27628
55°	14204
60°	6173
65°	1270
70°	875
75°	0
80°	284
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.2	6.5
10°-20°	1394.8	20.1
20°-30°	2046.3	29.6
30°-40°	1807.7	26.1
40°-50°	925.9	13.4
50°-60°	258.9	3.7
60°-70°	33.1	0.5
70°-80°	3.4	0.0
80°-90°	0.7	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°	3894.4	56.2
0°-40°	5702.0	82.4
0°-60°	6886.9	99.5
0°-90°	6924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6924.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4536	
5°	4657	453
15°	4962	1395
25°	4513	2046
35°	2908	1808
45°	1171	926
55°	264	259
65°	17	33
75°	0	3
85°	0	1
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4535.9
2.5°	4553.2
5°	4657.1
7.5°	4799.4
10°	4907.2
12.5°	4959.7
15°	4961.6
17.5°	4911.6
20°	4826.5
22.5°	4691.9
25°	4512.8
27.5°	4245.6
30°	3859.5
32.5°	3401.9
35°	2907.7
37.5°	2426.0
40°	1986.8
42.5°	1572.2
45°	1171.4
47.5°	836.0
50°	575.9
52.5°	402.4
55°	264.2
57.5°	167.8
60°	100.1
62.5°	51.9
65°	17.4
67.5°	11.3
70°	9.7
72.5°	5.7
75°	0.0
77.5°	1.6
80°	1.6
82.5°	1.6
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)