

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: P251165

Luminaire Tested: **LSR8B70D010 EC8B709730 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201704)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B709730 8LBM0WH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6314.0 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

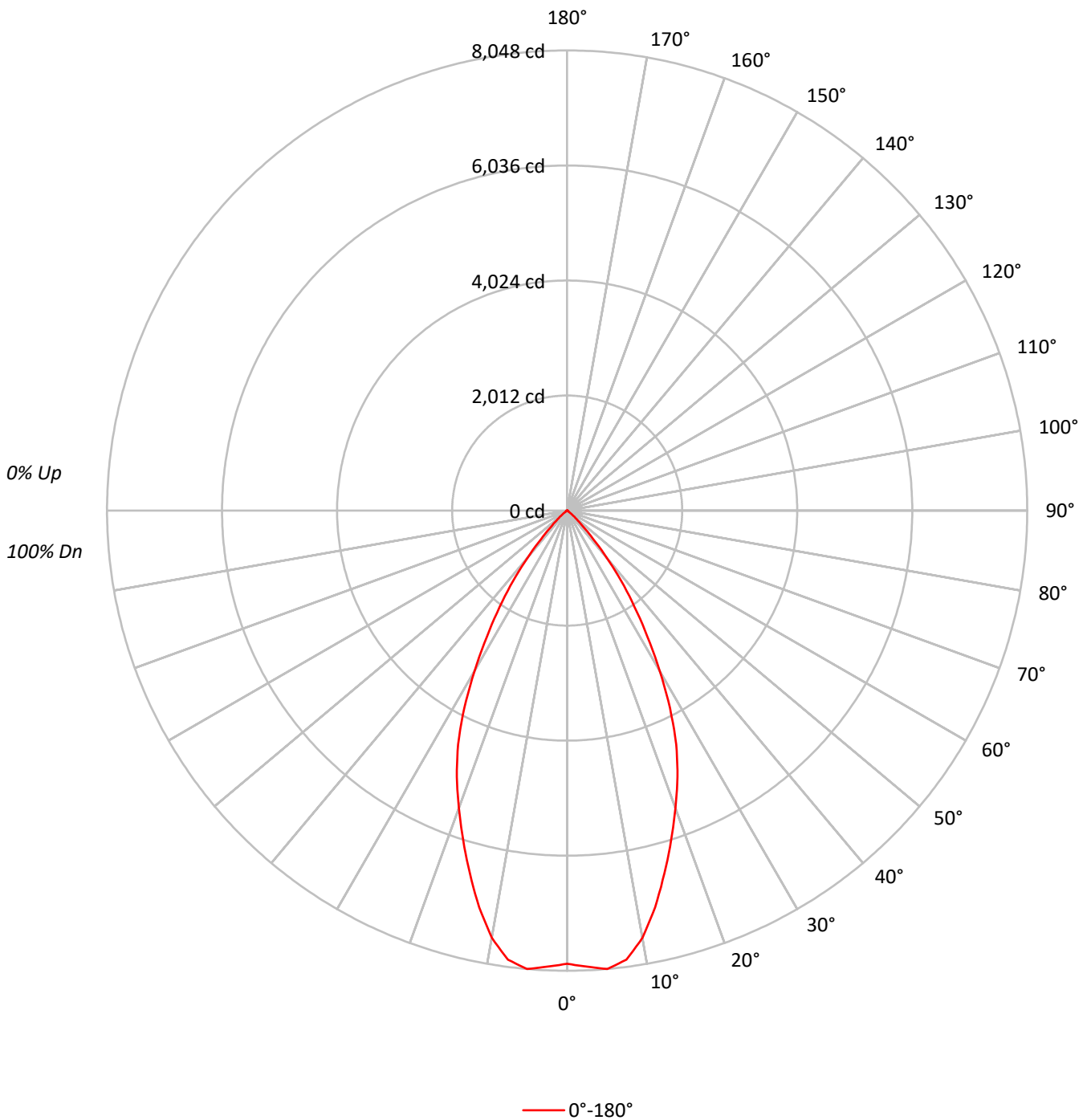
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P251165

CATALOG NUMBER: LSR8B70D010 EC8B709730 8LBM0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P251165

CATALOG NUMBER: LSR8B70D010 EC8B709730 8LBM0WH

**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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	89	84	81	87	83	80		85	82	79		83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	73		79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65		72	68	64		71	67	64	63
8	80	71	65	61	79	71	65	61	69	64	61		68	64	61		67	63	60	59
9	77	67	61	58	76	67	61	57	66	61	57		65	60	57		64	60	57	56
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61	57	54	53

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

	0°
0°	244415
5°	249109
10°	237508
15°	209719
20°	181738
25°	153564
30°	115401
35°	77272
40°	43273
45°	17383
50°	6021
55°	1667
60°	944
65°	825
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P251165

CATALOG NUMBER: LSR8B70D010 EC8B709730 8LBM0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	753.0	11.9
10°-20°	1832.3	29.0
20°-30°	2033.3	32.2
30°-40°	1288.2	20.4
40°-50°	357.4	5.7
50°-60°	40.9	0.6
60°-70°	8.0	0.1
70°-80°	0.8	0.0
80°-90°	0.0	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°	4618.6	73.1
0°-40°	5906.8	93.6
0°-60°	6305.1	99.9
0°-90°	6314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6314.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7926	
5°	8048	753
15°	6569	1832
25°	4513	2033
35°	2053	1288
45°	399	357
55°	31	41
65°	11	8
75°	0	1
85°	0	0
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



TEST NUMBER: P251165

CATALOG NUMBER: LSR8B70D010 EC8B709730 8LBM0WH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7926.2
2.5°	7984.8
5°	8047.7
7.5°	7922.2
10°	7585.2
12.5°	7104.6
15°	6569.3
17.5°	6043.6
20°	5538.2
22.5°	5042.3
25°	4513.4
27.5°	3894.8
30°	3241.0
32.5°	2607.8
35°	2052.7
37.5°	1551.1
40°	1075.0
42.5°	668.5
45°	398.6
47.5°	229.2
50°	125.5
52.5°	61.4
55°	31.0
57.5°	23.4
60°	15.3
62.5°	8.1
65°	11.3
67.5°	5.6
70°	0.0
72.5°	1.6
75°	0.0
77.5°	1.6
80°	0.0
82.5°	0.0
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



TEST NUMBER: P251165

CATALOG NUMBER: LSR8B70D010 EC8B709730 8LBM0WH

**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)