

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: P247609

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120940 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7256.0 lumens  
Efficiency: N/A  
Efficacy: 61.3 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

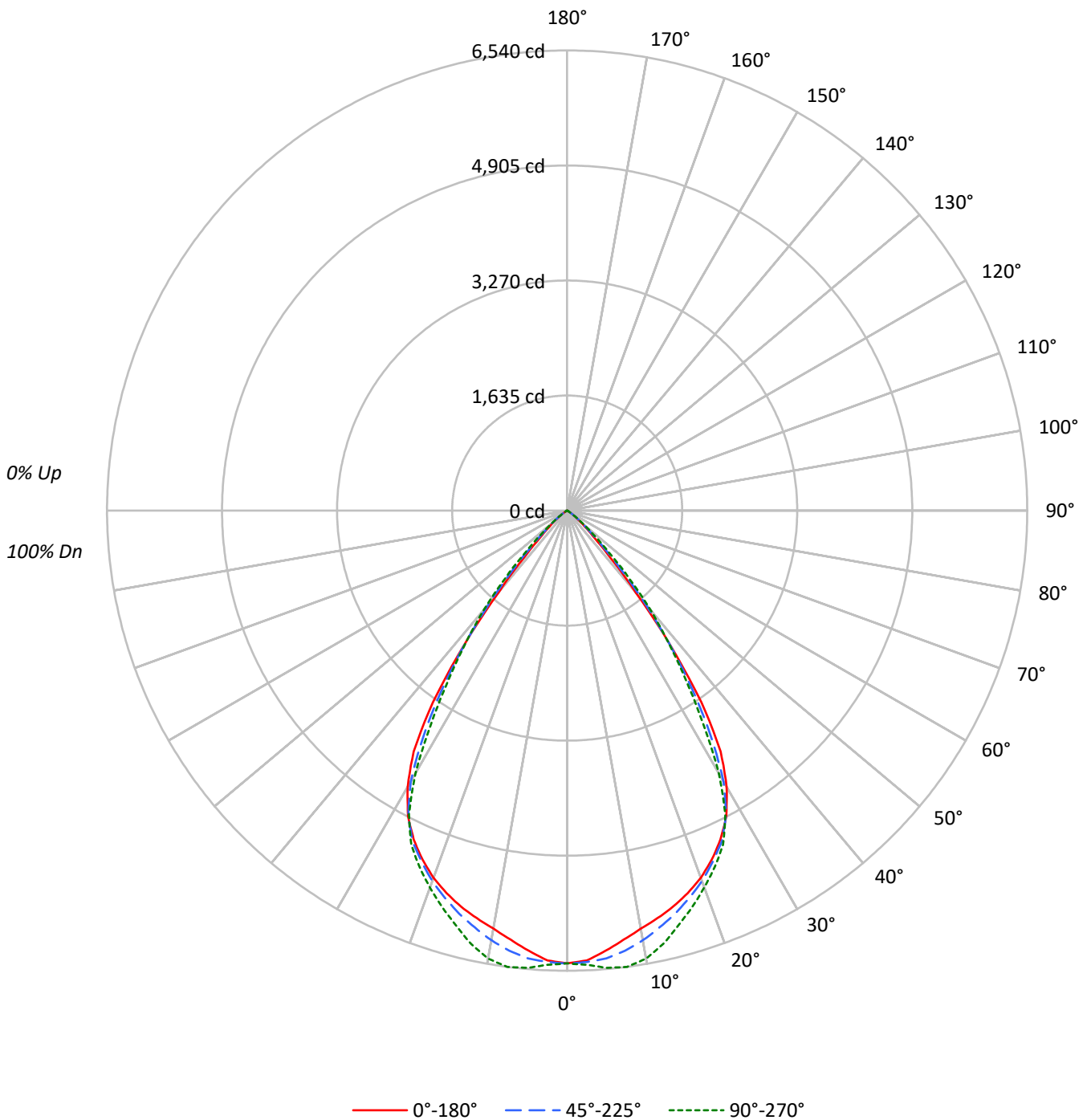
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247609

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P247609

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0B

**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	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					100			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95					93				
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88					86				
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81					79				
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75					73				
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69					68				
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64					63				
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60					58				
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55					54				
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52					50				
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48					47				

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

	0°	45°	90°
0°	198459	198459	198459
5°	194386	197797	201938
10°	188909	194169	202426
15°	186025	189335	194906
20°	182220	183897	187083
25°	175493	176745	178307
30°	161466	158336	153664
35°	125114	116569	110742
40°	60792	68979	73894
45°	23518	30269	36680
50°	11015	12588	14416
55°	4586	4935	5080
60°	1536	1455	1375
65°	190	285	285
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P247609

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	605.0	8.3
10°-20°	1674.2	23.1
20°-30°	2359.0	32.5
30°-40°	1908.5	26.3
40°-50°	605.9	8.4
50°-60°	96.9	1.3
60°-70°	6.6	0.1
70°-80°	0.0	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°	4638.2	63.9
0°-40°	6546.7	90.2
0°-60°	7249.4	99.9
0°-90°	7256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7256.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6436	6436	6436	6436	6436	
5°	6280	6309	6390	6483	6524	592
15°	5827	5849	5931	6044	6105	1641
25°	5158	5167	5195	5224	5241	2355
35°	3324	3233	3097	2985	2942	1971
45°	539	583	694	792	841	503
55°	85	87	92	96	94	89
65°	3	4	4	4	4	7
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P247609

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBW0B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6435.9	6435.9	6435.9	6435.9	6435.9
2.5°	6399.2	6405.8	6421.5	6451.7	6460.9
5°	6279.8	6308.7	6390.0	6483.2	6523.8
7.5°	6151.2	6189.3	6308.7	6466.1	6539.6
10°	6033.1	6073.8	6201.1	6369.0	6464.8
12.5°	5933.4	5964.9	6068.5	6219.4	6308.7
15°	5827.1	5849.4	5930.8	6043.6	6105.3
17.5°	5699.8	5719.5	5773.3	5861.2	5908.5
20°	5552.9	5558.1	5604.0	5660.5	5701.1
22.5°	5370.5	5375.7	5402.0	5455.8	5483.3
25°	5157.9	5167.1	5194.7	5223.5	5240.6
27.5°	4896.8	4900.8	4887.6	4864.0	4869.3
30°	4534.7	4520.2	4446.8	4345.7	4315.6
32.5°	4059.7	3963.9	3805.1	3663.4	3605.7
35°	3323.6	3233.1	3096.6	2985.1	2941.8
37.5°	2388.1	2394.6	2385.4	2360.5	2365.7
40°	1510.2	1570.6	1713.6	1806.8	1835.7
42.5°	906.7	972.3	1129.7	1255.7	1296.4
45°	539.3	582.6	694.1	792.5	841.1
47.5°	346.4	367.4	422.5	480.2	507.8
50°	229.6	240.1	262.4	288.7	300.5
52.5°	147.0	150.9	161.4	170.6	179.8
55°	85.3	86.6	91.8	95.8	94.5
57.5°	44.6	44.6	44.6	44.6	44.6
60°	24.9	23.6	23.6	23.6	22.3
62.5°	11.8	11.8	11.8	10.5	10.5
65°	2.6	3.9	3.9	3.9	3.9
67.5°	0.0	0.0	0.0	0.0	1.3
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)