

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: P247620

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247620  
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: LSR8B100D010 EC8B100930 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5934.6 lumens  
Efficiency: N/A  
Efficacy: 55.8 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

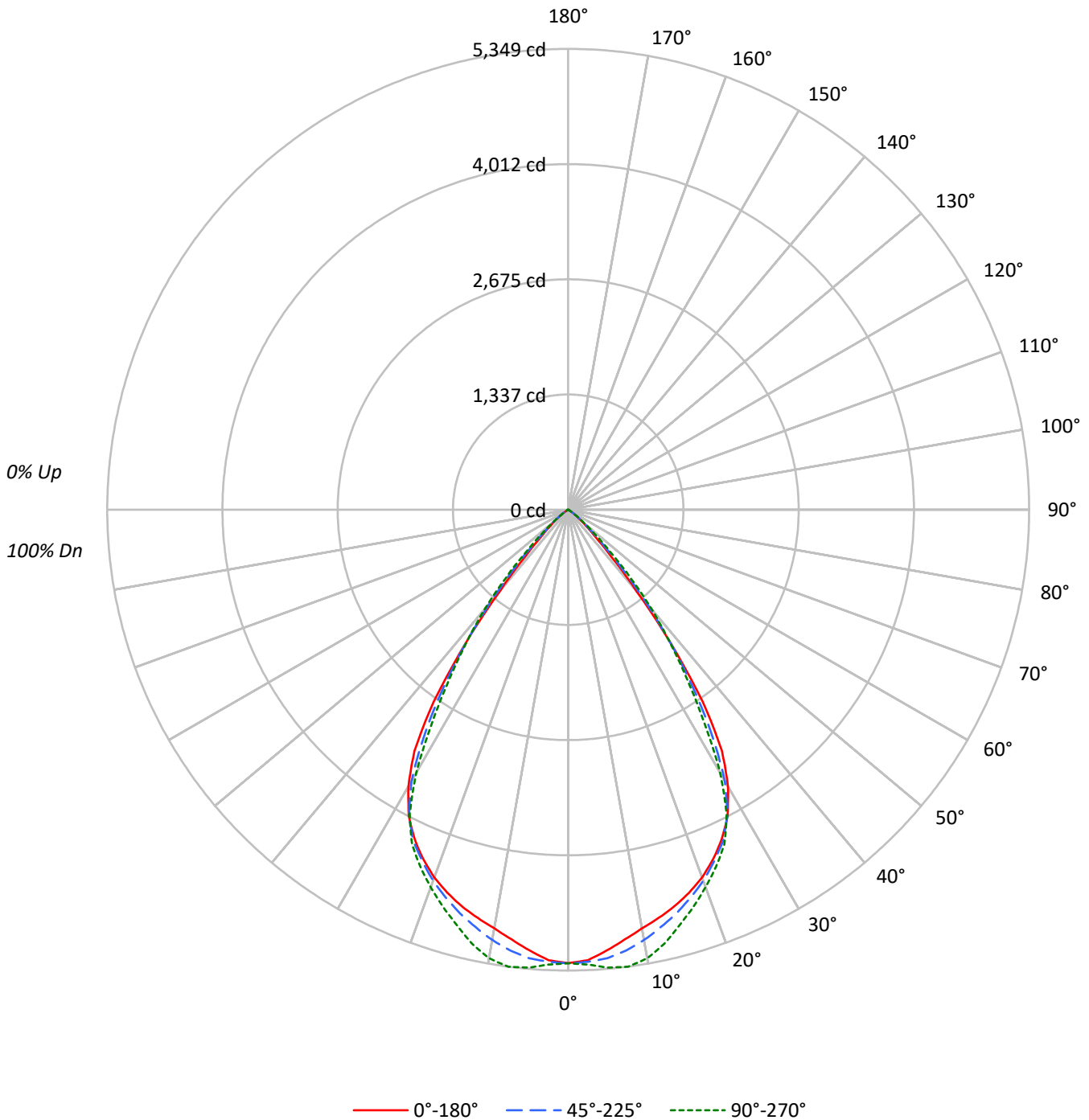
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	101	100	99	98	98	97	96	95	95	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	91	94	92	90	90	92	89	88	88	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	84	88	85	82	82	86	83	81	81	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	77	83	79	76	76	81	78	75	75	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	70	78	73	70	70	76	72	69	69	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	65	73	68	65	65	71	67	64	64	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	60	68	63	60	60	67	63	60	60	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	56	64	59	56	56	63	59	55	55	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	52	60	55	52	52	60	55	52	52	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	49	57	52	49	49	56	52	48	48	47	47		

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.8	8.3
10°-20°	1369.3	23.1
20°-30°	1929.4	32.5
30°-40°	1561.0	26.3
40°-50°	495.5	8.4
50°-60°	79.2	1.3
60°-70°	5.4	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°	3793.5	63.9
0°-40°	5354.4	90.2
0°-60°	5929.2	99.9
0°-90°	5934.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5934.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5264	5264	5264	5264	5264	
5°	5136	5160	5226	5302	5336	484
15°	4766	4784	4851	4943	4993	1342
25°	4218	4226	4249	4272	4286	1926
35°	2718	2644	2533	2441	2406	1612
45°	441	476	568	648	688	411
55°	70	71	75	78	77	73
65°	2	3	3	3	3	5
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5263.9	5263.9	5263.9	5263.9	5263.9
2.5°	5233.8	5239.2	5252.0	5276.8	5284.3
5°	5136.2	5159.7	5226.3	5302.4	5335.7
7.5°	5030.9	5062.1	5159.7	5288.5	5348.6
10°	4934.4	4967.7	5071.7	5209.2	5287.4
12.5°	4852.8	4878.6	4963.3	5086.8	5159.7
15°	4765.9	4784.2	4850.7	4942.9	4993.4
17.5°	4661.8	4677.9	4721.9	4793.8	4832.4
20°	4541.6	4545.9	4583.4	4629.6	4662.9
22.5°	4392.4	4396.8	4418.2	4462.3	4484.8
25°	4218.5	4226.1	4248.6	4272.2	4286.3
27.5°	4005.0	4008.2	3997.5	3978.2	3982.5
30°	3708.8	3697.1	3637.0	3554.4	3529.6
32.5°	3320.4	3242.0	3112.1	2996.2	2949.0
35°	2718.3	2644.2	2532.7	2441.4	2406.0
37.5°	1953.1	1958.5	1951.0	1930.6	1935.0
40°	1235.2	1284.6	1401.6	1477.7	1501.4
42.5°	741.5	795.2	924.0	1027.1	1060.2
45°	441.1	476.5	567.7	648.2	687.8
47.5°	283.3	300.5	345.6	392.8	415.3
50°	187.8	196.4	214.7	236.1	245.7
52.5°	120.2	123.4	132.1	139.6	147.1
55°	69.7	70.8	75.1	78.4	77.2
57.5°	36.4	36.4	36.4	36.4	36.4
60°	20.4	19.3	19.3	19.3	18.3
62.5°	9.6	9.6	9.6	8.6	8.6
65°	2.1	3.3	3.3	3.3	3.3
67.5°	0.0	0.0	0.0	0.0	1.1
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)