

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: P247665

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B1209727 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7976.0 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

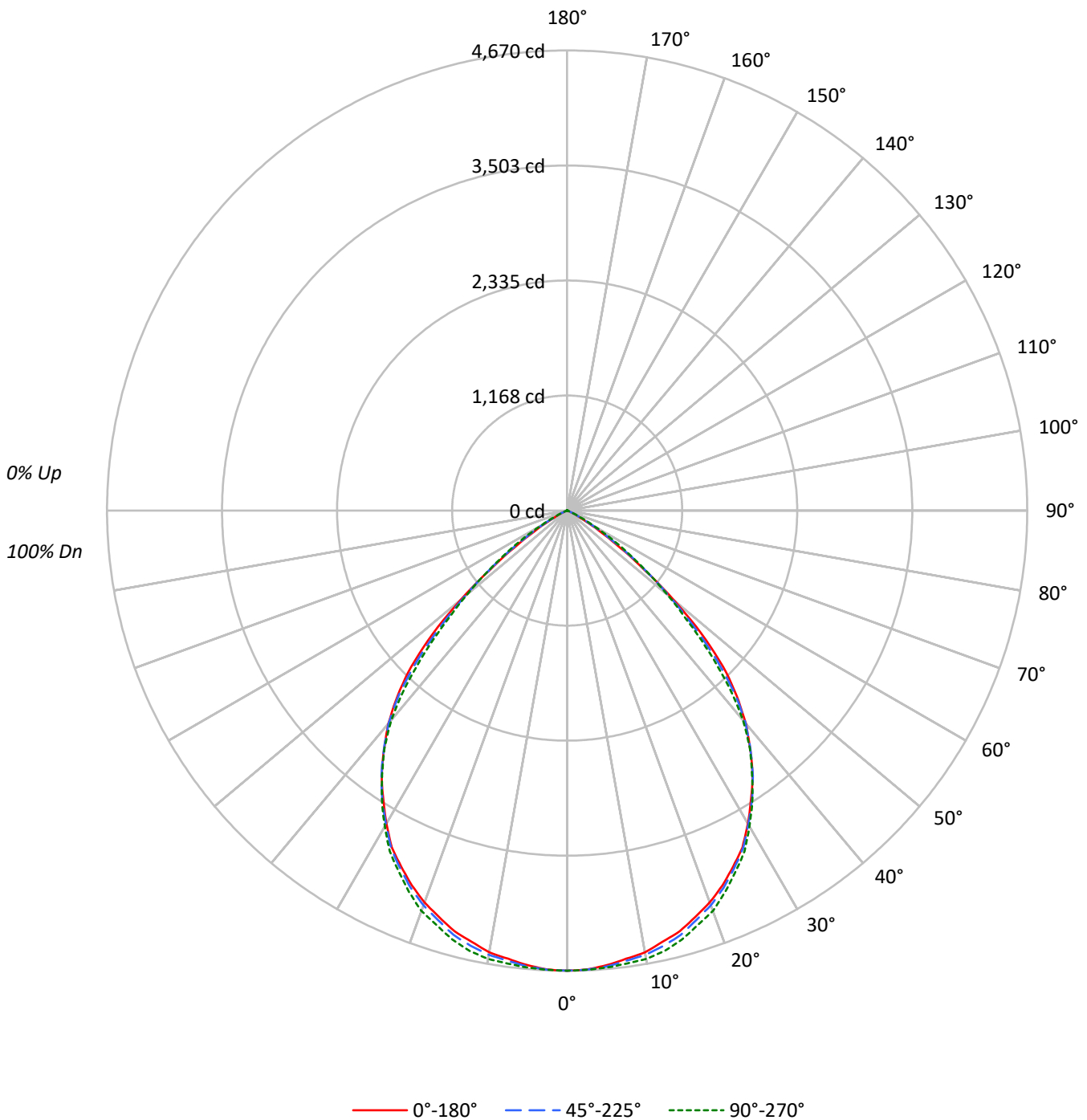
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

**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°	441.0	5.5
10°-20°	1255.1	15.7
20°-30°	1843.7	23.1
30°-40°	2041.3	25.6
40°-50°	1626.8	20.4
50°-60°	666.6	8.4
60°-70°	98.1	1.2
70°-80°	1.4	0.0
80°-90°	2.0	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°	3539.8	44.4
0°-40°	5581.1	70.0
0°-60°	7874.5	98.7
0°-90°	7976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7976.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4670	4670	4670	4670	4670	
5°	4631	4639	4643	4651	4655	439
15°	4420	4423	4458	4500	4506	1244
25°	3986	3982	4008	4031	4043	1833
35°	3281	3277	3286	3282	3273	2039
45°	2238	2218	2147	2067	2048	1680
55°	658	681	716	757	758	634
65°	63	66	77	84	82	83
75°	0	0	0	0	0	3
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4670.1	4670.1	4670.1	4670.1	4670.1
2.5°	4661.9	4662.9	4662.9	4657.8	4663.9
5°	4631.1	4639.3	4643.4	4650.6	4654.7
7.5°	4588.0	4586.0	4607.5	4633.2	4636.2
10°	4552.1	4548.0	4576.8	4610.6	4619.8
12.5°	4481.4	4486.5	4523.4	4558.3	4576.8
15°	4419.8	4422.9	4457.8	4499.8	4506.0
17.5°	4324.4	4333.7	4357.2	4401.4	4409.6
20°	4231.1	4235.2	4261.9	4297.8	4324.4
22.5°	4117.2	4124.4	4144.9	4176.7	4190.1
25°	3985.9	3981.8	4007.5	4031.1	4043.4
27.5°	3852.6	3845.4	3864.9	3887.5	3898.8
30°	3668.0	3665.9	3677.2	3691.6	3700.8
32.5°	3474.1	3479.2	3490.5	3494.6	3497.7
35°	3281.3	3277.2	3286.4	3282.3	3273.1
37.5°	3052.5	3055.6	3055.6	3051.5	3047.4
40°	2819.7	2822.8	2816.6	2794.1	2777.6
42.5°	2546.9	2548.9	2517.1	2466.9	2433.0
45°	2238.1	2217.6	2146.8	2066.8	2048.4
47.5°	1849.4	1814.5	1740.6	1680.1	1658.6
50°	1414.5	1388.8	1364.2	1332.4	1326.3
52.5°	991.9	1005.2	1014.4	1024.7	1021.6
55°	658.5	681.1	716.0	757.0	758.0
57.5°	395.9	421.6	465.7	510.8	532.3
60°	232.8	243.1	274.9	308.7	319.0
62.5°	126.2	129.2	143.6	177.4	172.3
65°	62.6	65.6	76.9	84.1	82.1
67.5°	30.8	33.8	35.9	46.2	38.0
70°	7.2	2.1	4.1	5.1	2.1
72.5°	0.0	0.0	2.1	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.1	0.0	0.0	0.0	4.1
80°	9.2	6.2	2.1	2.1	3.1
82.5°	3.1	1.0	3.1	1.0	0.0
85°	0.0	0.0	0.0	4.1	0.0
87.5°	5.1	1.0	1.0	3.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)