

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: P247233

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120927 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10568.2 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

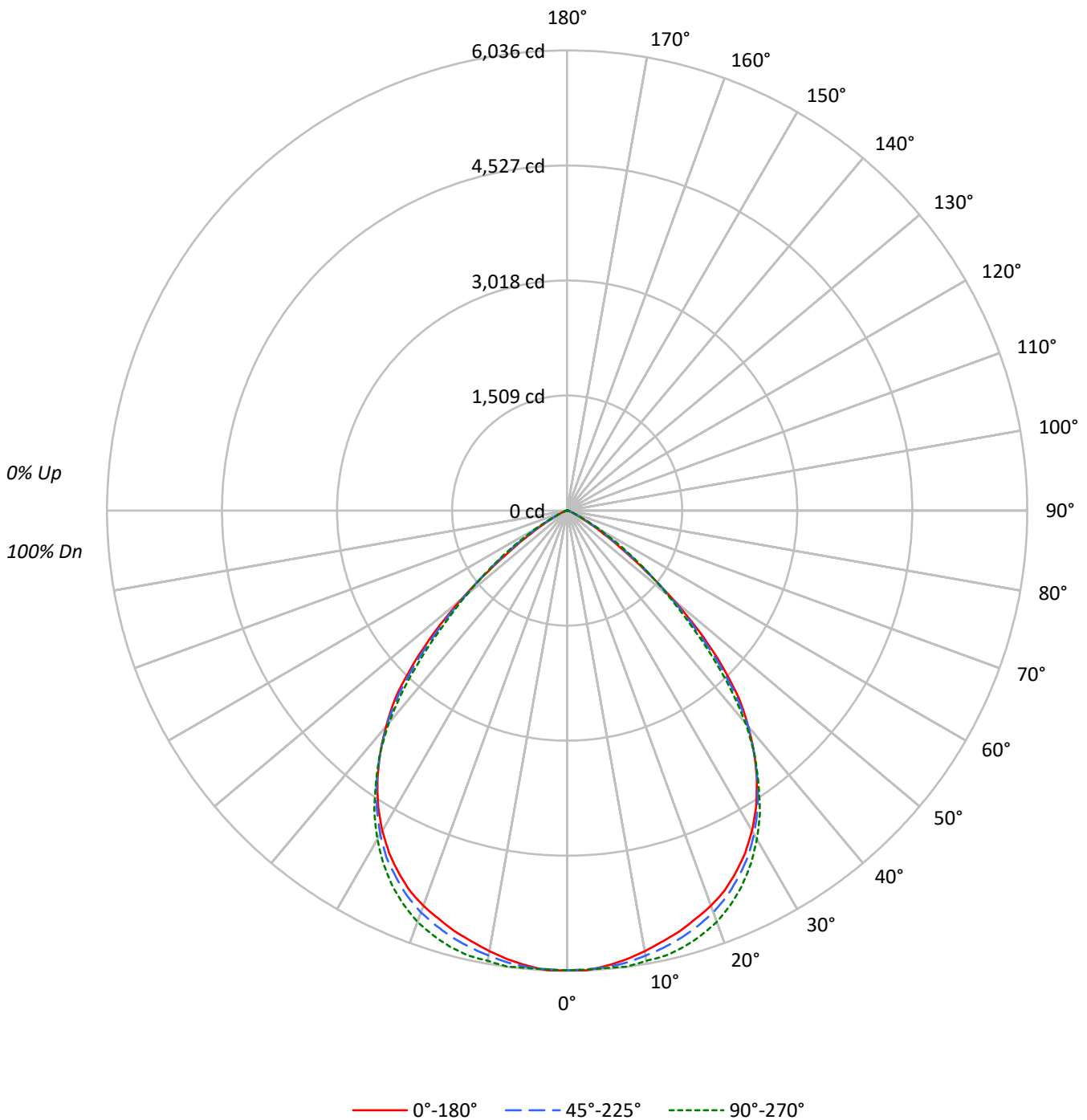
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	100	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65	65		
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58	58		
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53	53		
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48	48	48	48	48		
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43	43	43	43	43		
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36	36	36	36	36		

**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°	571.3	5.4
10°-20°	1638.4	15.5
20°-30°	2444.7	23.1
30°-40°	2707.5	25.6
40°-50°	2111.5	20.0
50°-60°	885.0	8.4
60°-70°	177.3	1.7
70°-80°	28.2	0.3
80°-90°	4.4	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°	4654.4	44.0
0°-40°	7361.9	69.7
0°-60°	10358.4	98.0
0°-90°	10568.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10568.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6031	6031	6031	6031	6031	
5°	5993	5998	6010	6026	6023	568
15°	5710	5736	5800	5886	5925	1611
25°	5237	5258	5310	5392	5428	2407
35°	4338	4331	4358	4378	4374	2696
45°	2868	2855	2781	2696	2661	2170
55°	864	898	956	994	1012	842
65°	135	135	136	147	142	163
75°	39	36	36	28	25	32
85°	1	2	1	0	6	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6031.1	6031.1	6031.1	6031.1	6031.1
2.5°	6035.7	6024.2	6021.9	6028.8	6024.2
5°	5993.0	5997.6	6010.3	6026.5	6023.0
7.5°	5937.6	5945.6	5980.3	6021.9	6032.2
10°	5868.3	5885.7	5927.2	5974.5	5996.5
12.5°	5787.6	5810.6	5870.7	5938.8	5979.2
15°	5710.3	5735.6	5800.3	5885.7	5924.9
17.5°	5613.3	5646.8	5710.3	5802.5	5842.9
20°	5516.3	5546.4	5607.6	5697.6	5742.6
22.5°	5396.4	5418.2	5475.9	5552.1	5598.3
25°	5237.1	5257.9	5309.8	5391.8	5427.6
27.5°	5059.3	5083.7	5130.9	5187.5	5219.8
30°	4849.3	4869.0	4902.4	4953.2	4977.4
32.5°	4612.7	4613.8	4647.4	4685.4	4707.3
35°	4338.1	4331.1	4357.7	4378.5	4373.9
37.5°	4034.6	4035.7	4033.5	4035.7	4040.3
40°	3695.3	3679.1	3691.8	3663.0	3642.2
42.5°	3335.2	3319.1	3269.5	3205.9	3171.4
45°	2867.8	2855.1	2781.2	2695.8	2661.3
47.5°	2354.3	2315.0	2255.1	2182.3	2148.9
50°	1810.7	1806.1	1770.3	1753.0	1723.0
52.5°	1294.9	1294.9	1338.8	1331.8	1330.6
55°	864.3	897.9	955.6	993.6	1012.0
57.5°	563.2	594.3	642.8	683.2	701.7
60°	364.7	379.7	414.3	445.5	467.4
62.5°	226.2	238.8	257.4	277.0	285.1
65°	135.0	135.0	136.1	146.6	142.0
67.5°	91.1	94.6	90.0	90.0	101.6
70°	58.8	55.4	54.2	53.1	53.1
72.5°	38.1	32.3	34.6	36.9	32.3
75°	39.3	35.8	35.8	27.7	25.4
77.5°	13.8	15.0	10.4	8.1	7.0
80°	1.1	4.6	4.6	1.1	0.0
82.5°	13.8	12.7	10.4	16.2	10.4
85°	1.1	2.4	1.1	0.0	5.7
87.5°	0.0	0.0	0.0	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)