

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 EC8B1209727 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 EC8B1209727 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: 9394.0 lumens  
Efficiency: N/A  
Efficacy: 79.4 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

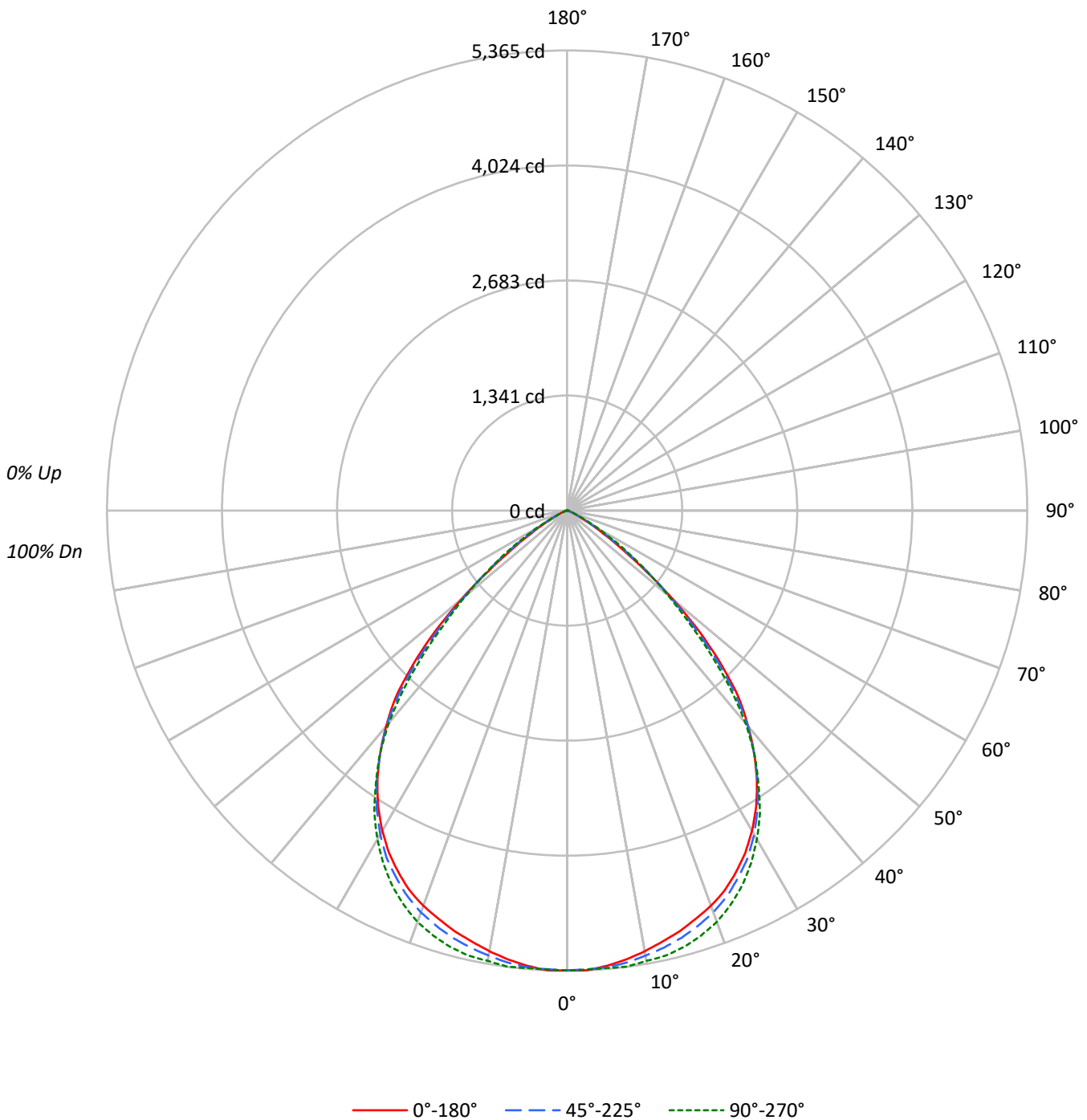
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	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°	507.9	5.4
10°-20°	1456.4	15.5
20°-30°	2173.0	23.1
30°-40°	2406.6	25.6
40°-50°	1876.8	20.0
50°-60°	786.7	8.4
60°-70°	157.6	1.7
70°-80°	25.1	0.3
80°-90°	3.9	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°	4137.3	44.0
0°-40°	6543.9	69.7
0°-60°	9207.4	98.0
0°-90°	9394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9394.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5361	5361	5361	5361	5361	
5°	5327	5331	5342	5357	5354	505
15°	5076	5098	5156	5232	5267	1432
25°	4655	4674	4720	4793	4824	2139
35°	3856	3850	3874	3892	3888	2397
45°	2549	2538	2472	2396	2366	1929
55°	768	798	849	883	900	749
65°	120	120	121	130	126	145
75°	35	32	32	25	23	28
85°	1	2	1	0	5	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5361.0	5361.0	5361.0	5361.0	5361.0
2.5°	5365.1	5354.8	5352.8	5358.9	5354.8
5°	5327.1	5331.2	5342.5	5356.9	5353.8
7.5°	5277.9	5285.0	5315.8	5352.8	5362.0
10°	5216.3	5231.7	5268.6	5310.7	5330.2
12.5°	5144.5	5165.0	5218.4	5278.9	5314.8
15°	5075.8	5098.3	5155.8	5231.7	5266.6
17.5°	4989.6	5019.4	5075.8	5157.8	5193.7
20°	4903.4	4930.1	4984.5	5064.5	5104.5
22.5°	4796.8	4816.2	4867.5	4935.2	4976.3
25°	4655.2	4673.7	4719.8	4792.7	4824.5
27.5°	4497.2	4518.8	4560.8	4611.1	4639.8
30°	4310.5	4328.0	4357.7	4402.8	4424.4
32.5°	4100.2	4101.2	4131.0	4164.8	4184.3
35°	3856.1	3849.9	3873.5	3892.0	3887.9
37.5°	3586.3	3587.3	3585.3	3587.3	3591.4
40°	3284.7	3270.3	3281.6	3256.0	3237.5
42.5°	2964.6	2950.3	2906.2	2849.7	2819.0
45°	2549.2	2537.9	2472.2	2396.3	2365.6
47.5°	2092.7	2057.8	2004.5	1939.8	1910.1
50°	1609.5	1605.4	1573.6	1558.2	1531.6
52.5°	1151.0	1151.0	1190.0	1183.8	1182.8
55°	768.3	798.1	849.4	883.2	899.6
57.5°	500.6	528.3	571.4	607.3	623.7
60°	324.2	337.5	368.3	396.0	415.5
62.5°	201.1	212.3	228.8	246.2	253.4
65°	120.0	120.0	121.0	130.3	126.2
67.5°	81.0	84.1	80.0	80.0	90.3
70°	52.3	49.2	48.2	47.2	47.2
72.5°	33.9	28.7	30.8	32.8	28.7
75°	34.9	31.8	31.8	24.6	22.6
77.5°	12.3	13.3	9.2	7.2	6.2
80°	1.0	4.1	4.1	1.0	0.0
82.5°	12.3	11.3	9.2	14.4	9.2
85°	1.0	2.1	1.0	0.0	5.1
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)