

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: P247234

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247234  
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: LSR8B80D010 EC8B80930 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7562.3 lumens  
Efficiency: N/A  
Efficacy: 101.6 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

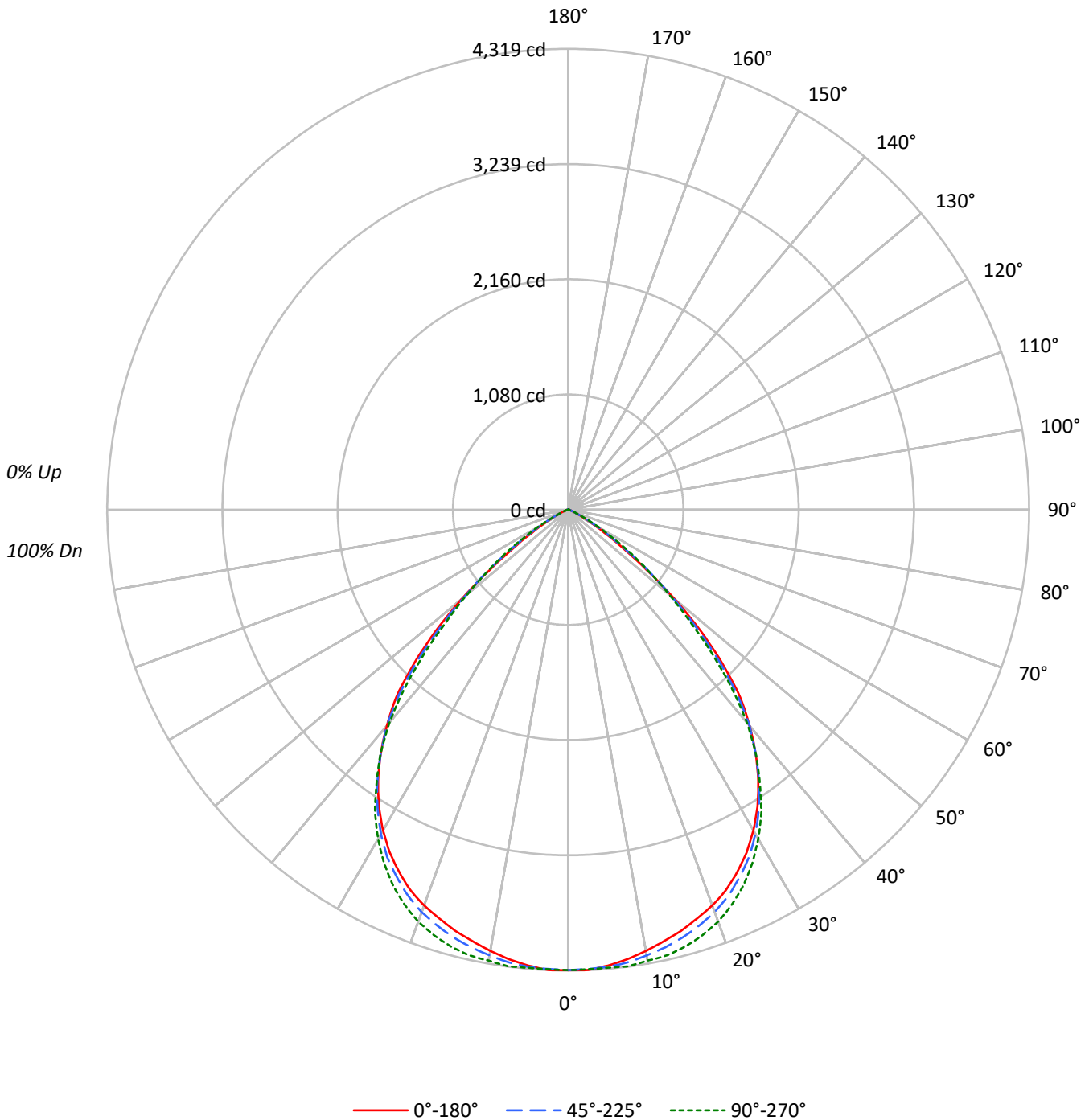
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247234

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBS0H

### Luminous Intensity Polar Plot





TEST NUMBER: P247234

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBS0H

**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			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	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			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	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			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	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			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	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			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	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			

**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°			



TEST NUMBER: P247234

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBS0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.8	5.4
10°-20°	1172.4	15.5
20°-30°	1749.3	23.1
30°-40°	1937.4	25.6
40°-50°	1510.9	20.0
50°-60°	633.3	8.4
60°-70°	126.9	1.7
70°-80°	20.2	0.3
80°-90°	3.1	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°	3330.5	44.0
0°-40°	5267.9	69.7
0°-60°	7412.1	98.0
0°-90°	7562.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7562.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4316	4316	4316	4316	4316	
5°	4288	4292	4301	4312	4310	407
15°	4086	4104	4150	4212	4240	1153
25°	3748	3762	3800	3858	3884	1722
35°	3104	3099	3118	3133	3130	1929
45°	2052	2043	1990	1929	1904	1552
55°	619	642	684	711	724	603
65°	97	97	97	105	102	117
75°	28	26	26	20	18	23
85°	1	2	1	0	4	3
90°	0	0	0	0	0	



TEST NUMBER: P247234

CATALOG NUMBER: LSR8B80D010 EC8B80930 8LBS0H

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4315.6	4315.6	4315.6	4315.6	4315.6
2.5°	4318.9	4310.7	4309.0	4313.9	4310.7
5°	4288.4	4291.6	4300.7	4312.4	4309.8
7.5°	4248.7	4254.5	4279.3	4309.0	4316.4
10°	4199.2	4211.6	4241.3	4275.2	4290.9
12.5°	4141.4	4157.9	4200.8	4249.6	4278.5
15°	4086.0	4104.2	4150.5	4211.6	4239.6
17.5°	4016.7	4040.6	4086.0	4152.1	4181.0
20°	3947.3	3968.8	4012.5	4077.0	4109.1
22.5°	3861.4	3877.1	3918.5	3972.9	4006.0
25°	3747.5	3762.3	3799.5	3858.1	3883.7
27.5°	3620.3	3637.6	3671.5	3712.0	3735.1
30°	3470.1	3484.1	3507.9	3544.4	3561.6
32.5°	3300.7	3301.6	3325.4	3352.8	3368.4
35°	3104.2	3099.2	3118.2	3133.1	3129.8
37.5°	2887.0	2887.8	2886.1	2887.8	2891.2
40°	2644.2	2632.7	2641.7	2621.1	2606.2
42.5°	2386.6	2375.0	2339.5	2294.0	2269.2
45°	2052.1	2043.0	1990.2	1929.0	1904.2
47.5°	1684.6	1656.5	1613.6	1561.6	1537.7
50°	1295.7	1292.4	1266.7	1254.4	1232.9
52.5°	926.5	926.5	957.9	953.0	952.2
55°	618.6	642.4	683.8	711.1	724.3
57.5°	403.0	425.3	459.9	488.9	502.1
60°	261.0	271.7	296.5	318.8	334.4
62.5°	161.9	171.0	184.2	198.2	204.0
65°	96.6	96.6	97.4	104.9	101.6
67.5°	65.2	67.7	64.5	64.5	72.6
70°	42.1	39.7	38.8	38.0	38.0
72.5°	27.2	23.1	24.8	26.5	23.1
75°	28.0	25.6	25.6	19.8	18.2
77.5°	9.9	10.8	7.4	5.8	4.9
80°	0.8	3.3	3.3	0.8	0.0
82.5°	9.9	9.1	7.4	11.5	7.4
85°	0.8	1.7	0.8	0.0	4.1
87.5°	0.0	0.0	0.0	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)