

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: P247270

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247270  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80940 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7348.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

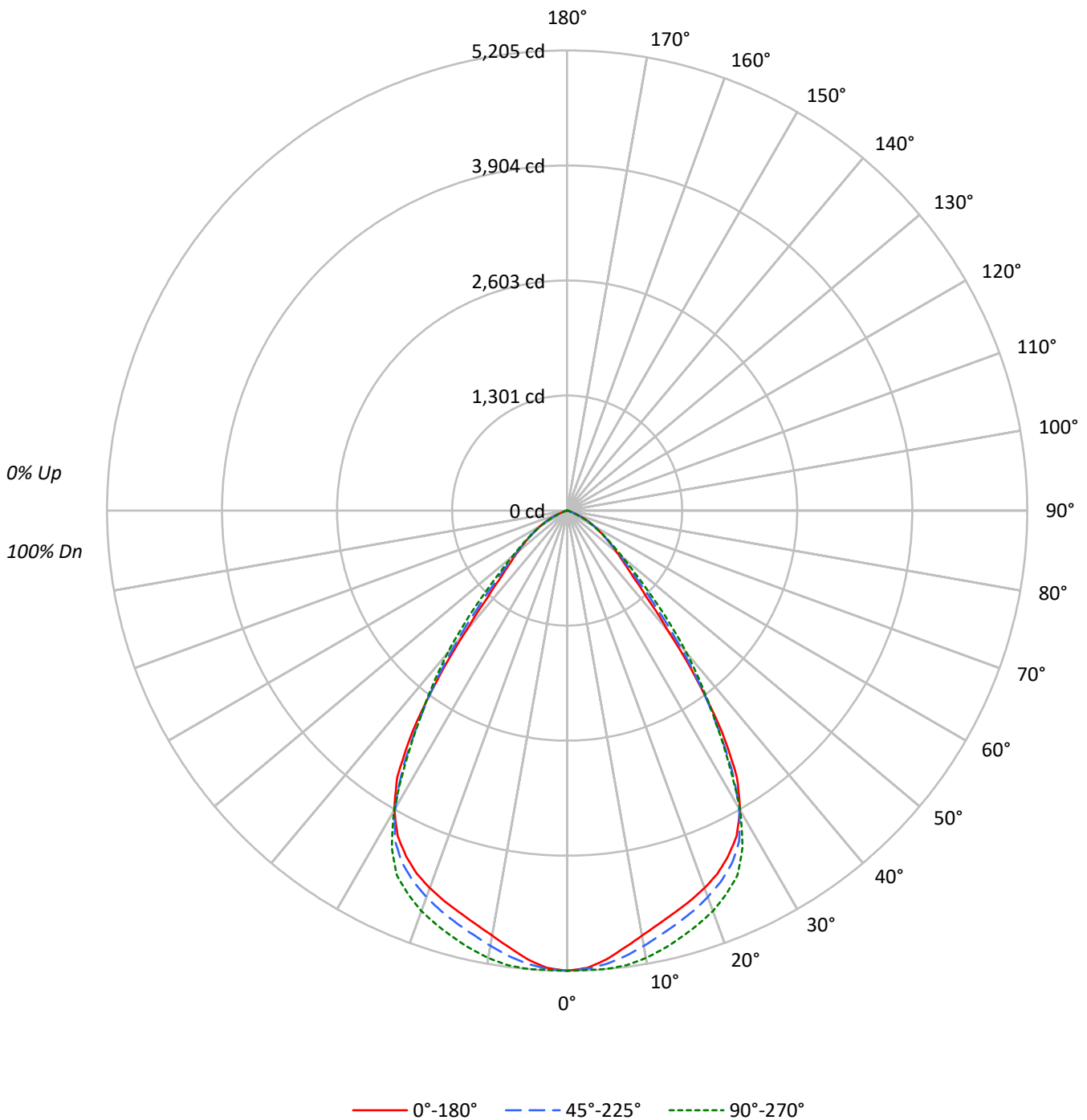
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247270

CATALOG NUMBER: LSR8B80D010 EC8B80940 8LBW0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P247270

CATALOG NUMBER: LSR8B80D010 EC8B80940 8LBW0WMH

**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	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			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	160509	160509	160509
5°	157758	159274	161039
10°	152834	156541	160894
15°	150248	154229	159490
20°	149064	152660	158183
25°	146705	149948	154980
30°	139194	138624	139511
35°	114736	110681	110410
40°	71886	78306	84795
45°	45563	50652	57019
50°	35083	36450	39011
55°	27773	27676	28682
60°	21641	21203	21092
65°	14557	13973	13586
70°	6663	6104	5779
75°	3181	2859	2657
80°	1580	1421	1421
85°	955	955	637



TEST NUMBER: P247270

CATALOG NUMBER: LSR8B80D010 EC8B80940 8LBW0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.8	6.6
10°-20°	1366.9	18.6
20°-30°	2013.1	27.4
30°-40°	1831.0	24.9
40°-50°	947.9	12.9
50°-60°	474.8	6.5
60°-70°	193.4	2.6
70°-80°	30.8	0.4
80°-90°	3.3	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°	3866.8	52.6
0°-40°	5697.8	77.5
0°-60°	7120.5	96.9
0°-90°	7348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7348.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5205	5205	5205	5205	5205	
5°	5096	5110	5146	5185	5202	479
15°	4706	4738	4831	4942	4996	1330
25°	4312	4341	4407	4508	4555	1974
35°	3048	3028	2940	2915	2933	1838
45°	1045	1081	1162	1251	1308	861
55°	517	515	515	525	534	469
65°	200	199	192	189	186	201
75°	27	26	24	22	22	34
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



TEST NUMBER: P247270

CATALOG NUMBER: LSR8B80D010 EC8B80940 8LBW0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5205.2	5205.2	5205.2	5205.2	5205.2
2.5°	5177.6	5180.2	5187.4	5195.4	5201.6
5°	5096.5	5109.9	5145.5	5184.7	5202.5
7.5°	4986.1	5015.5	5080.5	5153.5	5185.6
10°	4881.0	4914.8	4999.4	5097.4	5138.4
12.5°	4788.3	4821.3	4913.0	5022.6	5073.3
15°	4706.4	4738.4	4831.1	4942.4	4995.9
17.5°	4628.9	4658.3	4746.5	4857.8	4912.1
20°	4542.5	4568.3	4652.1	4759.8	4820.4
22.5°	4444.5	4464.1	4542.5	4644.9	4698.4
25°	4311.8	4341.2	4407.1	4507.8	4555.0
27.5°	4149.7	4168.4	4213.8	4275.3	4294.9
30°	3909.2	3908.3	3893.2	3893.2	3918.1
32.5°	3575.2	3532.5	3460.3	3416.7	3413.1
35°	3047.9	3028.3	2940.2	2915.2	2933.0
37.5°	2404.9	2418.2	2440.5	2476.1	2508.2
40°	1785.8	1819.7	1945.3	2057.5	2106.5
42.5°	1332.5	1376.1	1504.4	1627.3	1687.0
45°	1044.8	1081.3	1161.5	1251.4	1307.5
47.5°	864.0	882.7	925.4	986.0	1014.5
50°	731.3	740.2	759.8	790.9	813.2
52.5°	620.8	617.2	627.9	648.4	656.4
55°	516.6	514.8	514.8	524.6	533.5
57.5°	428.4	425.7	420.4	424.9	427.5
60°	350.9	348.3	343.8	342.9	342.0
62.5°	282.3	277.9	269.0	267.2	267.2
65°	199.5	198.6	191.5	188.8	186.2
67.5°	123.8	120.2	114.0	108.7	107.8
70°	73.9	73.0	67.7	64.1	64.1
72.5°	44.5	42.8	40.1	38.3	37.4
75°	26.7	25.8	24.0	22.3	22.3
77.5°	16.0	15.1	14.3	13.4	13.4
80°	8.9	8.9	8.0	8.0	8.0
82.5°	5.3	5.3	4.5	4.5	4.5
85°	2.7	2.7	2.7	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)