

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: P247560

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100940 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9674.0 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

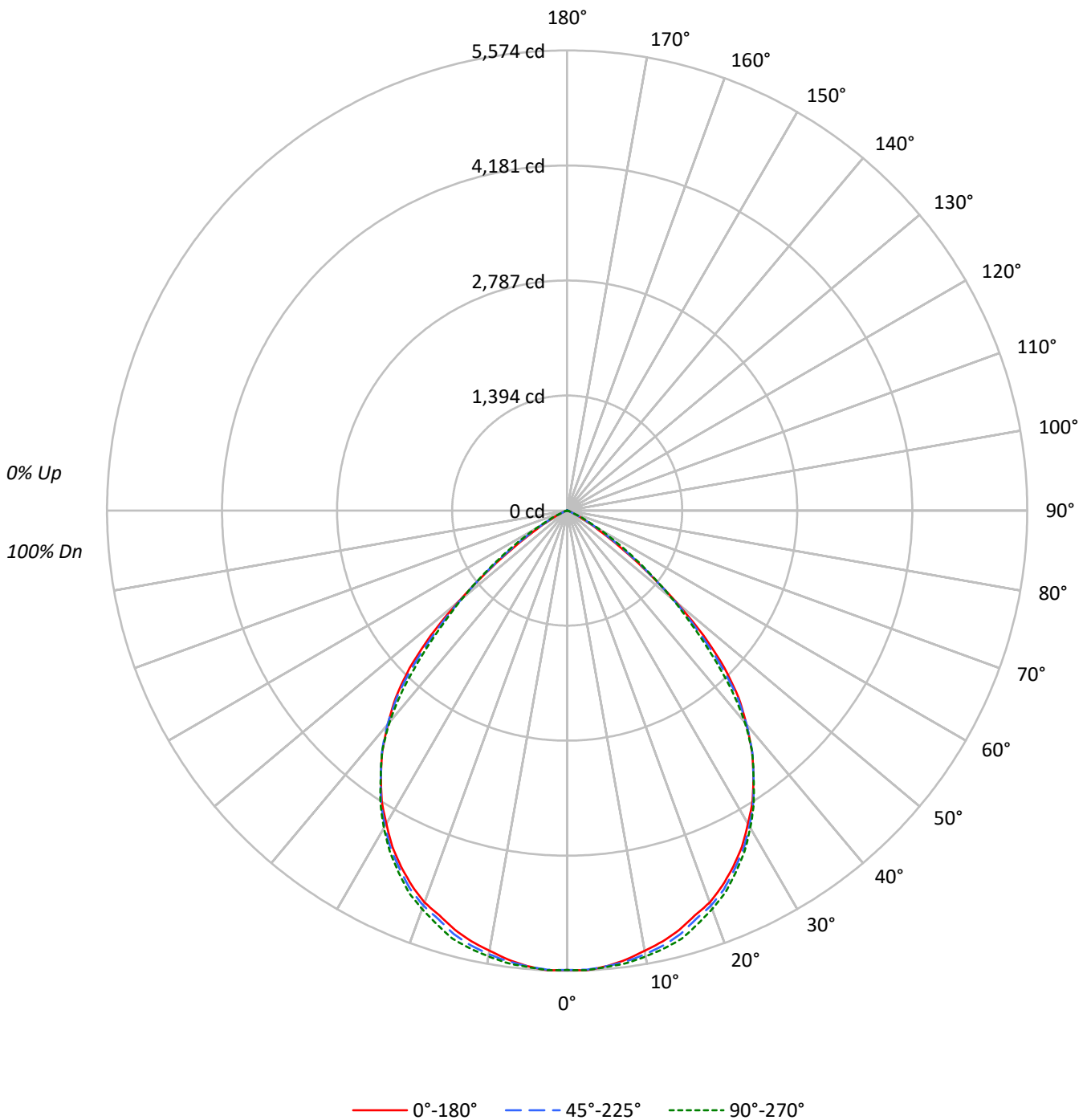
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	171610	171610	171610
5°	171408	171480	171730
10°	169548	170851	171721
15°	167799	169536	171385
20°	165760	167089	168533
25°	161941	163125	164462
30°	155997	157193	158015
35°	148017	148149	148190
40°	136006	136239	134843
45°	117662	113523	108478
50°	82513	80849	79793
55°	44805	48536	51713
60°	19772	24126	27339
65°	7603	9544	11404
70°	3859	3444	4490
75°	1239	2347	2073
80°	1030	213	1225
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.4	5.4
10°-20°	1495.0	15.5
20°-30°	2204.8	22.8
30°-40°	2454.0	25.4
40°-50°	1975.0	20.4
50°-60°	839.8	8.7
60°-70°	157.4	1.6
70°-80°	19.1	0.2
80°-90°	2.4	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°	4226.2	43.7
0°-40°	6680.3	69.1
0°-60°	9495.1	98.2
0°-90°	9674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9674.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5565	5565	5565	5565	5565	
5°	5538	5539	5540	5549	5548	525
15°	5256	5285	5311	5351	5368	1481
25°	4760	4777	4794	4822	4834	2187
35°	3932	3933	3936	3937	3937	2449
45°	2698	2676	2603	2524	2488	2029
55°	833	852	903	939	962	794
65°	104	116	131	140	156	135
75°	10	13	20	18	17	17
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5565.2	5565.2	5565.2	5565.2	5565.2
2.5°	5574.5	5578.0	5566.4	5568.7	5572.2
5°	5537.5	5538.6	5539.8	5549.0	5547.9
7.5°	5485.4	5493.5	5507.4	5524.7	5529.4
10°	5414.8	5435.6	5456.4	5477.3	5484.2
12.5°	5345.3	5358.1	5395.1	5415.9	5433.3
15°	5256.2	5285.1	5310.6	5351.1	5368.5
17.5°	5142.8	5163.6	5187.9	5228.4	5252.7
20°	5051.3	5057.1	5091.8	5127.7	5135.8
22.5°	4915.9	4928.6	4964.5	4988.8	5009.6
25°	4759.6	4777.0	4794.4	4822.1	4833.7
27.5°	4588.3	4598.7	4623.0	4642.7	4653.1
30°	4381.1	4404.3	4414.7	4424.0	4437.8
32.5°	4179.7	4186.7	4195.9	4201.7	4208.7
35°	3932.0	3933.2	3935.5	3936.6	3936.6
37.5°	3678.5	3686.6	3684.3	3677.4	3680.8
40°	3378.7	3392.6	3384.5	3363.7	3349.8
42.5°	3076.6	3069.7	3041.9	2979.4	2950.5
45°	2698.1	2676.1	2603.2	2524.5	2487.5
47.5°	2244.4	2195.8	2134.4	2073.1	2048.8
50°	1720.0	1713.1	1685.3	1661.0	1663.3
52.5°	1232.7	1250.1	1255.9	1279.0	1290.6
55°	833.4	851.9	902.8	938.7	961.9
57.5°	507.0	542.9	597.3	656.3	686.4
60°	320.6	341.5	391.2	429.4	443.3
62.5°	200.2	201.4	225.7	255.8	268.5
65°	104.2	115.7	130.8	140.1	156.3
67.5°	64.8	64.8	63.7	77.6	86.8
70°	42.8	37.0	38.2	46.3	49.8
72.5°	15.0	25.5	23.1	23.1	16.2
75°	10.4	12.7	19.7	18.5	17.4
77.5°	13.9	12.7	9.3	8.1	16.2
80°	5.8	4.6	1.2	6.9	6.9
82.5°	5.8	2.3	6.9	9.3	5.8
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)