

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: P247628

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247628  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100830 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9717.0 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

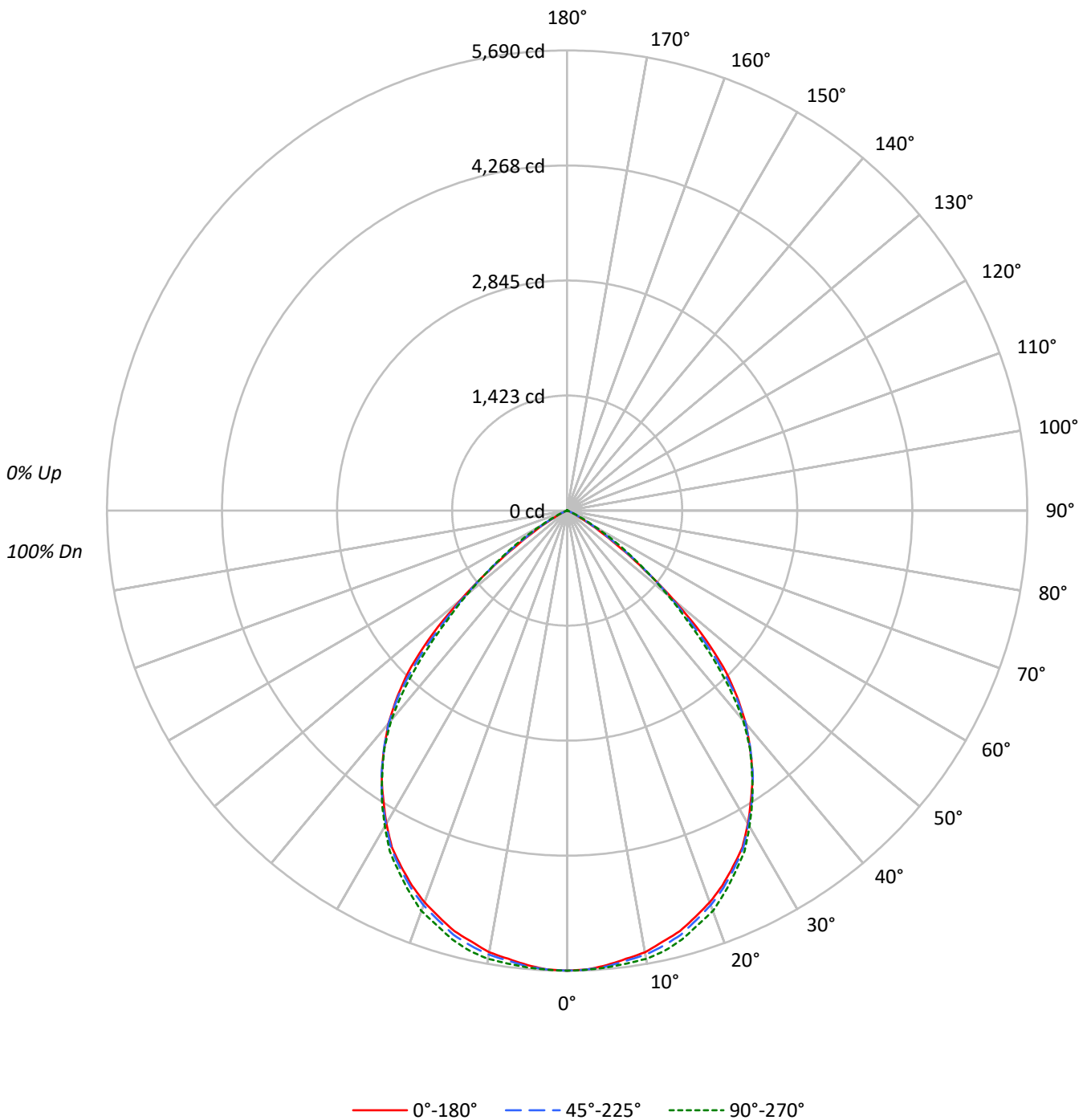
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

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

	0°	45°	90°
0°	175443	175443	175443
5°	174643	175107	175531
10°	173650	174590	176230
15°	171899	173373	175247
20°	169150	170380	172884
25°	165221	166113	167603
30°	159112	159514	160536
35°	150483	150720	150106
40°	138280	138127	136215
45°	118909	114055	108827
50°	82667	79731	77510
55°	43133	46891	49649
60°	17497	20654	23966
65°	5560	6837	7296
70°	784	451	225
75°	0	0	0
80°	1989	444	657
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	537.3	5.5
10°-20°	1529.0	15.7
20°-30°	2246.2	23.1
30°-40°	2486.8	25.6
40°-50°	1981.9	20.4
50°-60°	812.1	8.4
60°-70°	119.6	1.2
70°-80°	1.7	0.0
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°	4312.5	44.4
0°-40°	6799.3	70.0
0°-60°	9593.3	98.7
0°-90°	9717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5690	5690	5690	5690	5690	
5°	5642	5652	5657	5666	5671	535
15°	5385	5388	5431	5482	5490	1515
25°	4856	4851	4882	4911	4926	2233
35°	3998	3992	4004	3999	3988	2485
45°	2727	2702	2615	2518	2496	2046
55°	802	830	872	922	924	772
65°	76	80	94	102	100	101
75°	0	0	0	0	0	3
85°	0	0	0	5	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5689.5	5689.5	5689.5	5689.5	5689.5
2.5°	5679.5	5680.7	5680.7	5674.5	5682.0
5°	5642.0	5652.0	5657.0	5665.7	5670.7
7.5°	5589.5	5587.0	5613.3	5644.5	5648.2
10°	5545.8	5540.8	5575.8	5617.0	5628.2
12.5°	5459.6	5465.8	5510.8	5553.3	5575.8
15°	5384.6	5388.3	5430.8	5482.0	5489.5
17.5°	5268.4	5279.6	5308.3	5362.1	5372.1
20°	5154.6	5159.6	5192.1	5235.9	5268.4
22.5°	5015.9	5024.7	5049.7	5088.4	5104.7
25°	4856.0	4851.0	4882.2	4911.0	4926.0
27.5°	4693.5	4684.8	4708.5	4736.0	4749.8
30°	4468.6	4466.1	4479.9	4497.3	4508.6
32.5°	4232.4	4238.7	4252.4	4257.4	4261.2
35°	3997.5	3992.5	4003.8	3998.8	3987.5
37.5°	3718.8	3722.6	3722.6	3717.6	3712.6
40°	3435.2	3438.9	3431.4	3403.9	3383.9
42.5°	3102.8	3105.3	3066.5	3005.3	2964.1
45°	2726.7	2701.7	2615.4	2518.0	2495.5
47.5°	2253.0	2210.6	2120.6	2046.9	2020.6
50°	1723.2	1692.0	1662.0	1623.2	1615.7
52.5°	1208.4	1224.6	1235.9	1248.4	1244.6
55°	802.3	829.7	872.2	922.2	923.5
57.5°	482.3	513.6	567.3	622.3	648.5
60°	283.7	296.2	334.9	376.1	388.6
62.5°	153.7	157.5	174.9	216.2	209.9
65°	76.2	80.0	93.7	102.5	100.0
67.5°	37.5	41.2	43.7	56.2	46.2
70°	8.7	2.5	5.0	6.2	2.5
72.5°	0.0	0.0	2.5	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.5	0.0	0.0	0.0	5.0
80°	11.2	7.5	2.5	2.5	3.7
82.5°	3.7	1.2	3.7	1.2	0.0
85°	0.0	0.0	0.0	5.0	0.0
87.5°	6.2	1.2	1.2	3.7	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)