

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: P247604

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100935 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6128.0 lumens  
Efficiency: N/A  
Efficacy: 57.6 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

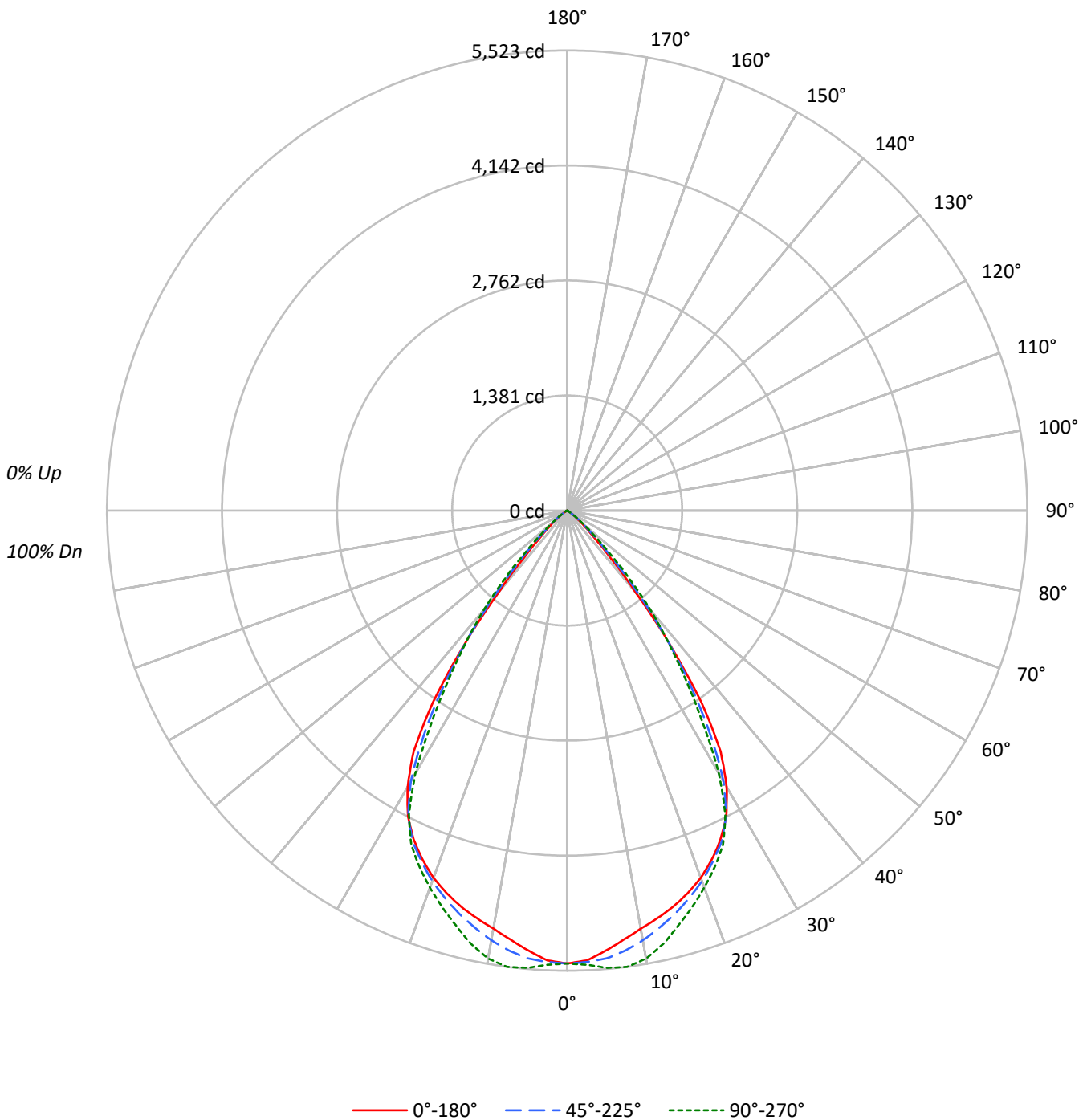
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95					93				
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88					86				
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81					79				
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75					73				
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69					68				
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64					63				
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60					58				
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55					54				
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52					50				
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48					47				

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

	0°	45°	90°
0°	167608	167608	167608
5°	164165	167047	170548
10°	159541	163984	170957
15°	157105	159901	164607
20°	153891	155312	158002
25°	148212	149267	150587
30°	136363	133721	129776
35°	105663	98447	93523
40°	51344	58256	62406
45°	19860	25564	30976
50°	9302	10631	12175
55°	3871	4172	4290
60°	1301	1227	1159
65°	161	241	241
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.9	8.3
10°-20°	1413.9	23.1
20°-30°	1992.3	32.5
30°-40°	1611.8	26.3
40°-50°	511.7	8.3
50°-60°	81.8	1.3
60°-70°	5.5	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3917.1	63.9
0°-40°	5529.0	90.2
0°-60°	6122.4	99.9
0°-90°	6128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6128.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5435	5435	5435	5435	5435	
5°	5304	5328	5397	5475	5510	500
15°	4921	4940	5009	5104	5156	1386
25°	4356	4364	4387	4412	4426	1989
35°	2807	2730	2615	2521	2484	1664
45°	455	492	586	669	710	424
55°	72	73	78	81	80	75
65°	2	3	3	3	3	6
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5435.4	5435.4	5435.4	5435.4	5435.4
2.5°	5404.4	5409.9	5423.2	5448.7	5456.5
5°	5303.5	5327.9	5396.6	5475.3	5509.7
7.5°	5195.0	5227.1	5327.9	5460.9	5523.0
10°	5095.2	5129.6	5237.1	5378.9	5459.8
12.5°	5011.0	5037.6	5125.1	5252.6	5327.9
15°	4921.2	4940.1	5008.8	5104.1	5156.2
17.5°	4813.8	4830.4	4875.8	4950.1	4989.9
20°	4689.6	4694.1	4732.9	4780.5	4814.9
22.5°	4535.6	4540.0	4562.2	4607.6	4630.9
25°	4356.1	4363.8	4387.1	4411.5	4425.9
27.5°	4135.6	4138.9	4127.8	4107.9	4112.3
30°	3829.7	3817.5	3755.5	3670.2	3644.7
32.5°	3428.6	3347.7	3213.6	3093.9	3045.2
35°	2806.9	2730.5	2615.2	2521.0	2484.4
37.5°	2016.8	2022.4	2014.6	1993.5	1998.0
40°	1275.5	1326.4	1447.2	1525.9	1550.3
42.5°	765.7	821.1	954.1	1060.5	1094.8
45°	455.4	492.0	586.2	669.3	710.3
47.5°	292.5	310.3	356.8	405.6	428.8
50°	193.9	202.8	221.6	243.8	253.8
52.5°	124.1	127.4	136.3	144.1	151.8
55°	72.0	73.1	77.6	80.9	79.8
57.5°	37.7	37.7	37.7	37.7	37.7
60°	21.1	19.9	19.9	19.9	18.8
62.5°	10.0	10.0	10.0	8.9	8.9
65°	2.2	3.3	3.3	3.3	3.3
67.5°	0.0	0.0	0.0	0.0	1.1
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)