

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: P251227

Luminaire Tested: **LSR8B70D010 EC8B70850 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-46)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70850 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6829.0 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

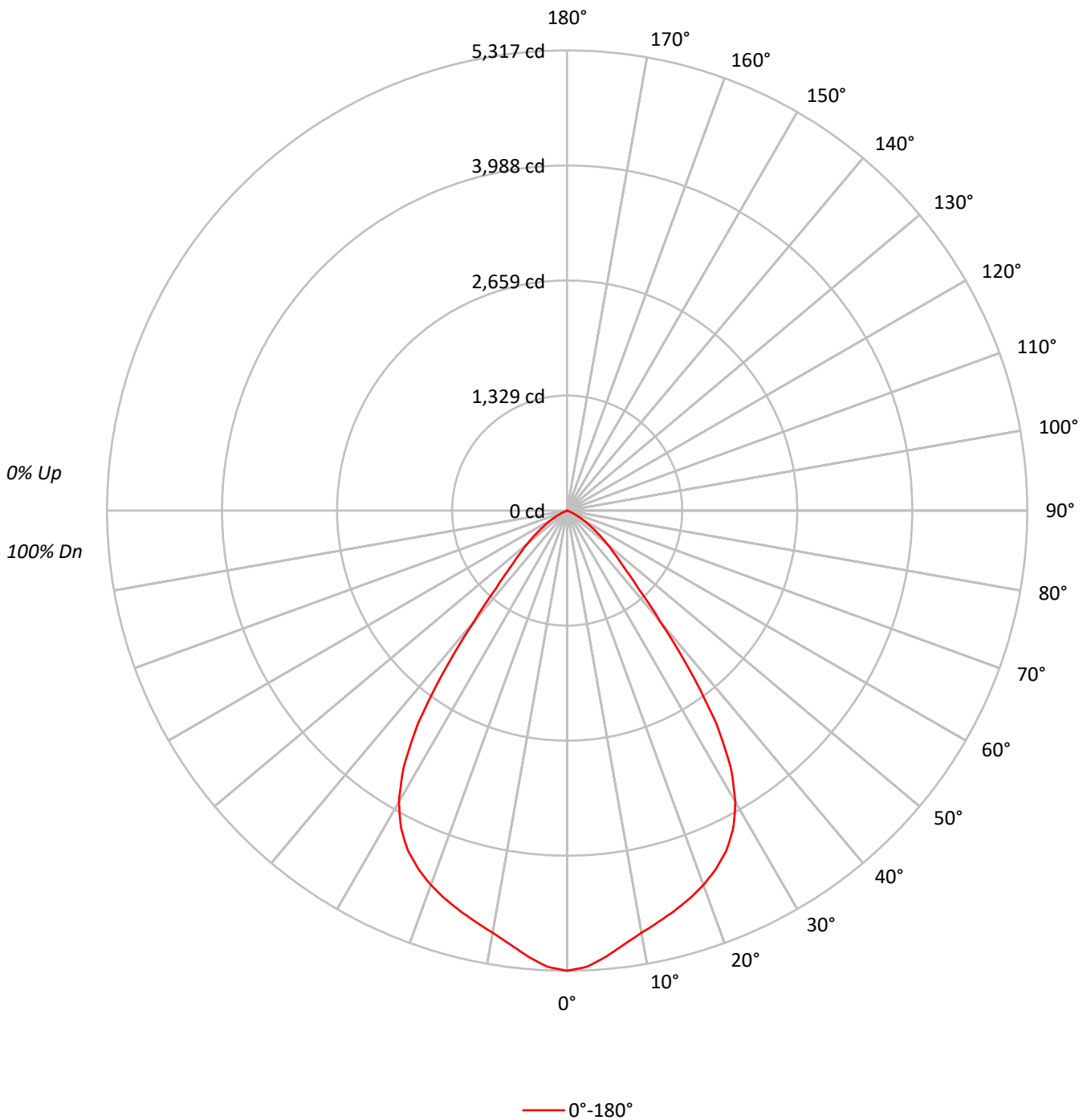
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64
6	83	73	66	61	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54
8	74	63	56	52	73	63	56	52	61	56	51	60	55	51	59	55	51	49
9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43

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

	0°
0°	163969
5°	160095
10°	155076
15°	152833
20°	151033
25°	147791
30°	138425
35°	113030
40°	67478
45°	40530
50°	29211
55°	19881
60°	12464
65°	6114
70°	1560
75°	584
80°	444
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.6	7.1
10°-20°	1351.1	19.8
20°-30°	1984.0	29.1
30°-40°	1798.5	26.3
40°-50°	769.9	11.3
50°-60°	340.7	5.0
60°-70°	90.8	1.3
70°-80°	7.1	0.1
80°-90°	0.3	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°	3821.6	56.0
0°-40°	5620.1	82.3
0°-60°	6730.7	98.6
0°-90°	6829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6829.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5317	
5°	5172	487
15°	4787	1351
25°	4344	1984
35°	3003	1799
45°	929	770
55°	370	341
65°	84	91
75°	5	7
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5317.4
2.5°	5275.5
5°	5172.0
7.5°	5053.6
10°	4952.6
12.5°	4868.7
15°	4787.4
17.5°	4701.1
20°	4602.5
22.5°	4486.6
25°	4343.7
27.5°	4151.4
30°	3887.6
32.5°	3517.8
35°	3002.6
37.5°	2327.1
40°	1676.3
42.5°	1210.4
45°	929.4
47.5°	749.4
50°	608.9
52.5°	483.2
55°	369.8
57.5°	276.1
60°	202.1
62.5°	140.5
65°	83.8
67.5°	37.0
70°	17.3
72.5°	9.9
75°	4.9
77.5°	2.5
80°	2.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)