

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: P250821

Luminaire Tested: **LSR8B70D010 EC8B70835 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70835 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

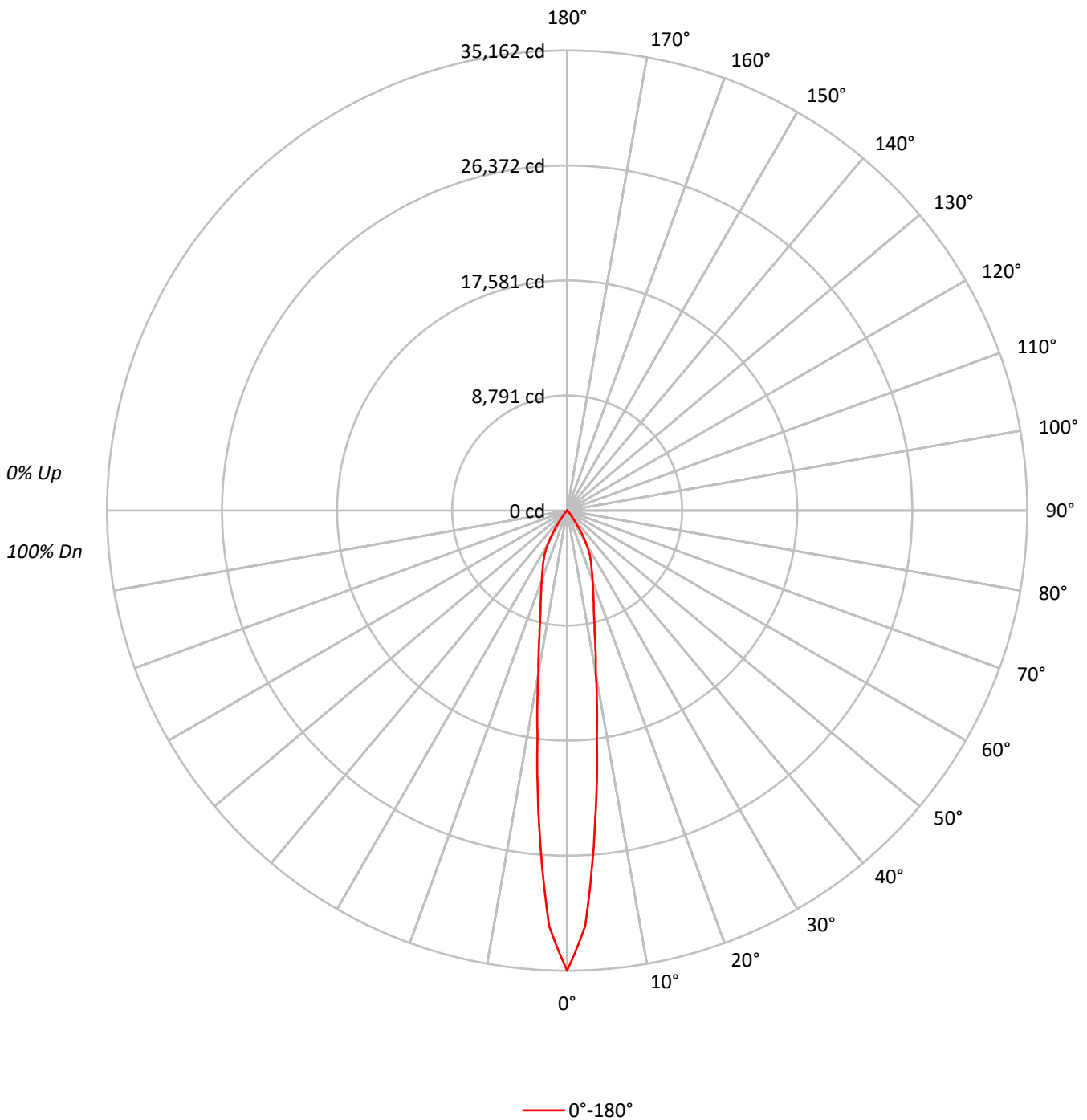
Lumens per Lamp: N/A
Luminaire Lumens: 7177.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.32
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	100	108	104	101	99	101	99	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	96	90	86	82	88	85	82		87	84	81		85	83	80	79
6	94	87	82	79	93	86	82	78	85	81	78		83	80	77		82	79	77	76
7	91	83	78	75	90	83	78	75	81	77	74		80	77	74		79	76	74	72
8	88	80	75	72	86	79	75	71	78	74	71		77	74	71		76	73	71	70
9	85	77	72	69	84	76	72	69	75	71	68		75	71	68		74	70	68	67
10	82	74	69	66	81	73	69	66	73	69	66		72	68	66		71	68	65	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1084282
5°	753089
10°	396294
15°	250738
20°	186335
25°	146494
30°	105471
35°	45260
40°	15776
45°	6049
50°	1401
55°	521
60°	0
65°	708
70°	216
75°	584
80°	870
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1950.5	27.2
10°-20°	2266.2	31.6
20°-30°	1955.9	27.3
30°-40°	848.5	11.8
40°-50°	133.0	1.9
50°-60°	9.6	0.1
60°-70°	5.1	0.1
70°-80°	5.5	0.1
80°-90°	2.7	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°	6172.6	86.0
0°-40°	7021.2	97.8
0°-60°	7163.8	99.8
0°-90°	7177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7177.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	35162	
5°	24329	###
15°	7854	2266
25°	4306	1956
35°	1202	849
45°	139	133
55°	10	10
65°	10	5
75°	5	5
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	35162.5
2.5°	31752.6
5°	24329.2
7.5°	17351.3
10°	12656.3
12.5°	9711.3
15°	7854.2
17.5°	6605.6
20°	5678.3
22.5°	4887.3
25°	4305.6
27.5°	3692.2
30°	2962.1
32.5°	2059.1
35°	1202.3
37.5°	671.8
40°	391.9
42.5°	243.4
45°	138.7
47.5°	112.0
50°	29.2
52.5°	14.6
55°	9.7
57.5°	4.9
60°	0.0
62.5°	2.4
65°	9.7
67.5°	7.3
70°	2.4
72.5°	12.2
75°	4.9
77.5°	0.0
80°	4.9
82.5°	2.4
85°	0.0
87.5°	4.9
90°	0.0

(END OF REPORT)