

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: P249802

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150835 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14252.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

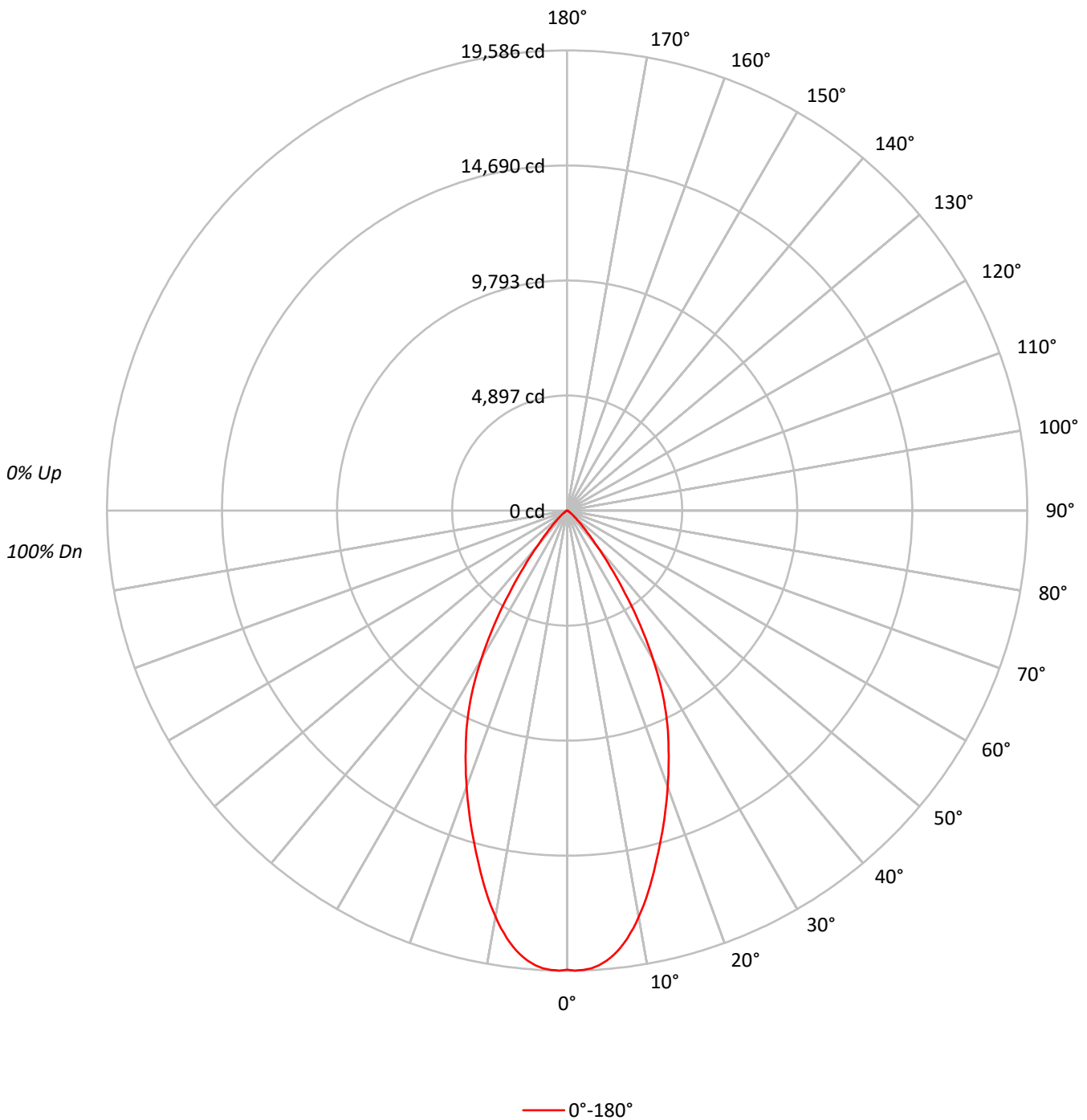
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	602773
5°	595374
10°	549855
15°	479462
20°	410703
25°	343783
30°	261546
35°	162130
40°	79989
45°	38071
50°	18508
55°	9075
60°	5649
65°	3874
70°	2173
75°	1728
80°	1705
85°	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1782.5	12.5
10°-20°	4184.8	29.4
20°-30°	4573.8	32.1
30°-40°	2721.8	19.1
40°-50°	746.6	5.2
50°-60°	169.1	1.2
60°-70°	52.2	0.4
70°-80°	15.9	0.1
80°-90°	5.2	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°	10541.1	74.0
0°-40°	13262.9	93.1
0°-60°	14178.6	99.5
0°-90°	14252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14252.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19548	
5°	19234	###
15°	15019	4185
25°	10104	4574
35°	4307	2722
45°	873	747
55°	169	169
65°	53	52
75°	14	16
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19547.5
1°	19586.1
2°	19562.0
3°	19513.8
4°	19402.9
5°	19234.1
6°	19017.0
7°	18727.6
8°	18390.0
9°	17999.4
10°	17560.5
11°	17092.6
12°	16591.1
13°	16075.0
14°	15539.6
15°	15018.8
16°	14507.5
17°	14005.9
18°	13504.3
19°	13002.8
20°	12515.6
22.5°	11290.6
25°	10104.1
27.5°	8797.1
30°	7345.4
32.5°	5787.6
35°	4306.9
37.5°	2995.1
40°	1987.1
42.5°	1302.2
45°	873.0
47.5°	578.8
50°	385.8
52.5°	236.3
55°	168.8
57.5°	120.6
60°	91.6
62.5°	67.5
65°	53.1
67.5°	33.8
70°	24.1
72.5°	19.3
75°	14.5
77.5°	9.6
80°	9.6



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	4.8
85°	4.8
87.5°	4.8
90°	0.0

(END OF REPORT)