

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: P249809

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249809
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 EC8B150840 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14158.0 lumens
Efficiency: N/A
Efficacy: 89.3 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

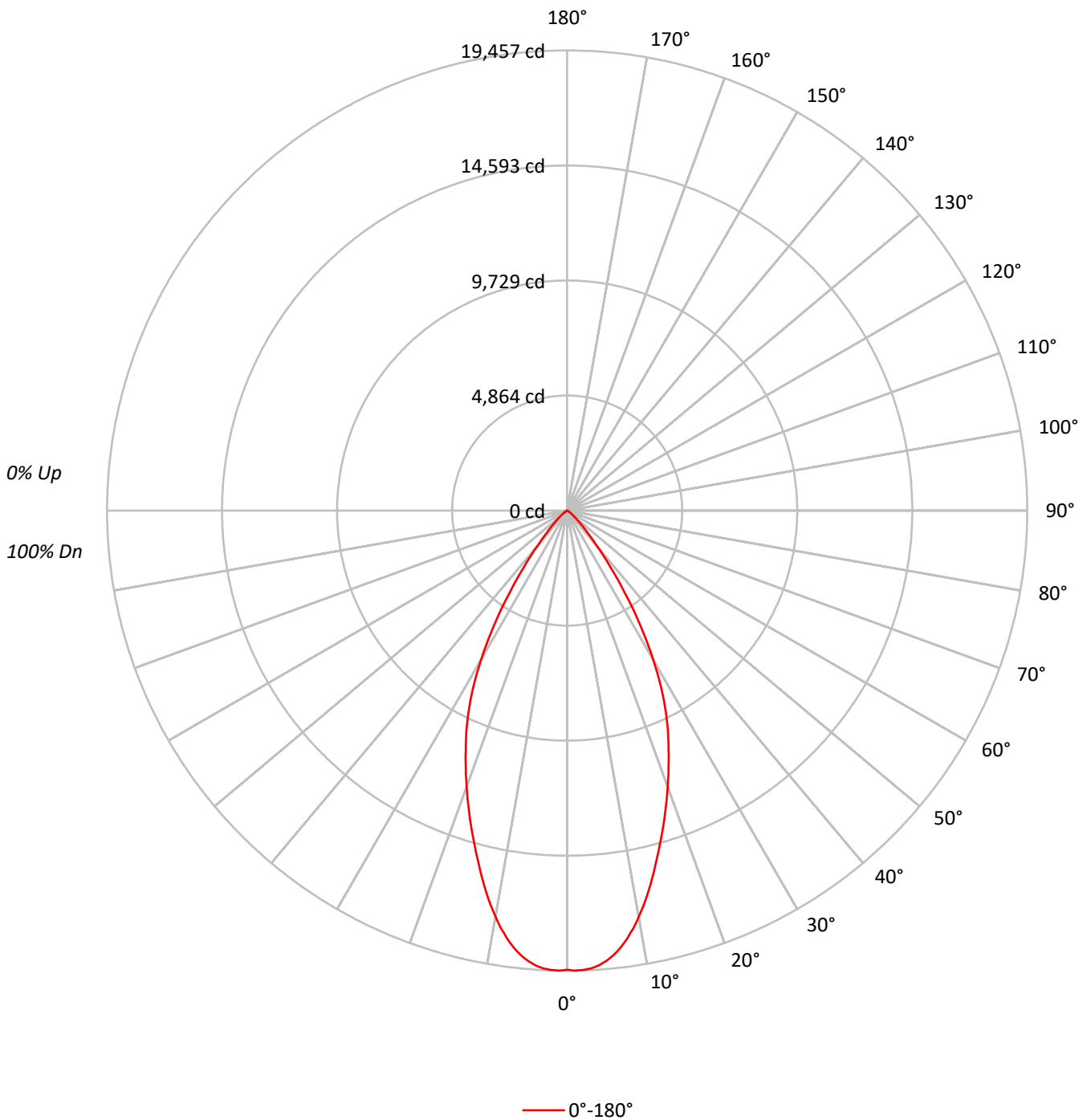
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	598798
5°	591446
10°	546229
15°	476298
20°	407996
25°	341517
30°	259822
35°	161061
40°	79461
45°	37818
50°	18388
55°	9016
60°	5612
65°	3845
70°	2164
75°	1716
80°	1705
85°	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1770.8	12.5
10°-20°	4157.2	29.4
20°-30°	4543.6	32.1
30°-40°	2703.8	19.1
40°-50°	741.6	5.2
50°-60°	168.0	1.2
60°-70°	51.9	0.4
70°-80°	15.8	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°	10471.6	74.0
0°-40°	13175.4	93.1
0°-60°	14085.1	99.5
0°-90°	14158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14158.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19419	
5°	19107	###
15°	14920	4157
25°	10038	4544
35°	4278	2704
45°	867	742
55°	168	168
65°	53	52
75°	14	16
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19418.6
1°	19456.9
2°	19433.0
3°	19385.1
4°	19274.9
5°	19107.2
6°	18891.6
7°	18604.1
8°	18268.7
9°	17880.7
10°	17444.7
11°	16979.9
12°	16481.6
13°	15969.0
14°	15437.2
15°	14919.7
16°	14411.8
17°	13913.6
18°	13415.3
19°	12917.0
20°	12433.1
22.5°	11216.1
25°	10037.5
27.5°	8739.1
30°	7297.0
32.5°	5749.4
35°	4278.5
37.5°	2975.3
40°	1974.0
42.5°	1293.6
45°	867.2
47.5°	574.9
50°	383.3
52.5°	234.8
55°	167.7
57.5°	119.8
60°	91.0
62.5°	67.1
65°	52.7
67.5°	33.5
70°	24.0
72.5°	19.2
75°	14.4
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)