

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: P249813

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249813
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: LSR8B90D010 EC8B90850 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8600.0 lumens
Efficiency: N/A
Efficacy: 99.9 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

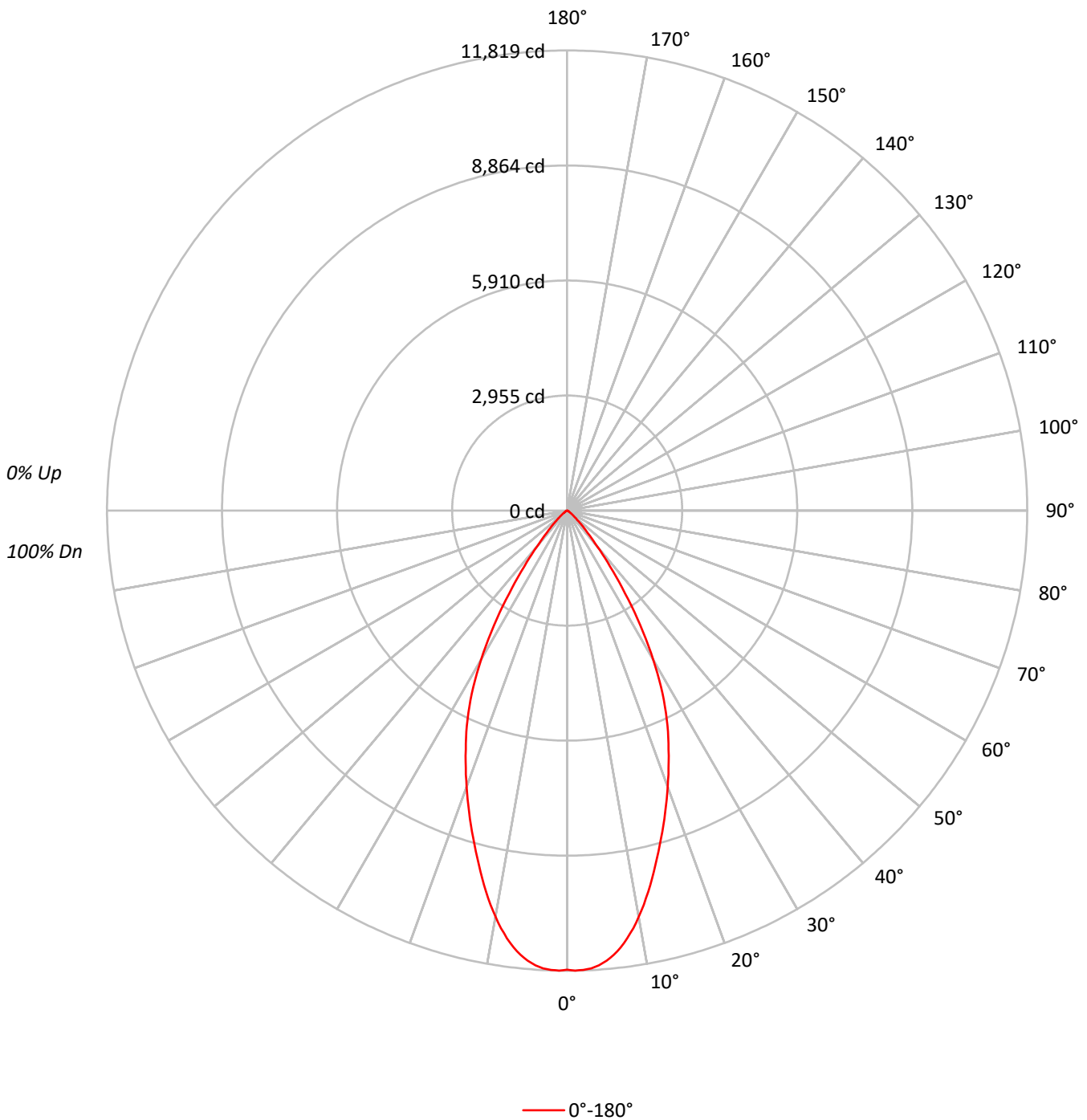
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	363730
5°	359263
10°	331795
15°	289319
20°	247828
25°	207448
30°	157823
35°	97833
40°	48264
45°	22973
50°	11168
55°	5478
60°	3410
65°	2335
70°	1316
75°	1037
80°	1030
85°	1026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1075.6	12.5
10°-20°	2525.2	29.4
20°-30°	2759.9	32.1
30°-40°	1642.4	19.1
40°-50°	450.5	5.2
50°-60°	102.1	1.2
60°-70°	31.5	0.4
70°-80°	9.6	0.1
80°-90°	3.2	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°	6360.8	74.0
0°-40°	8003.2	93.1
0°-60°	8555.7	99.5
0°-90°	8600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8600.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11796	
5°	11606	###
15°	9063	2525
25°	6097	2760
35°	2599	1642
45°	527	450
55°	102	102
65°	32	32
75°	9	10
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	11795.5
1°	11818.7
2°	11804.2
3°	11775.1
4°	11708.1
5°	11606.3
6°	11475.3
7°	11300.7
8°	11097.0
9°	10861.3
10°	10596.4
11°	10314.1
12°	10011.4
13°	9700.0
14°	9377.0
15°	9062.7
16°	8754.2
17°	8451.5
18°	8148.8
19°	7846.2
20°	7552.2
22.5°	6813.0
25°	6097.1
27.5°	5308.4
30°	4432.4
32.5°	3492.4
35°	2598.9
37.5°	1807.3
40°	1199.0
42.5°	785.8
45°	526.8
47.5°	349.2
50°	232.8
52.5°	142.6
55°	101.9
57.5°	72.8
60°	55.3
62.5°	40.7
65°	32.0
67.5°	20.4
70°	14.6
72.5°	11.6
75°	8.7
77.5°	5.8
80°	5.8



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	2.9
85°	2.9
87.5°	2.9
90°	0.0

(END OF REPORT)