

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: P247059

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25264)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90840 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9975.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

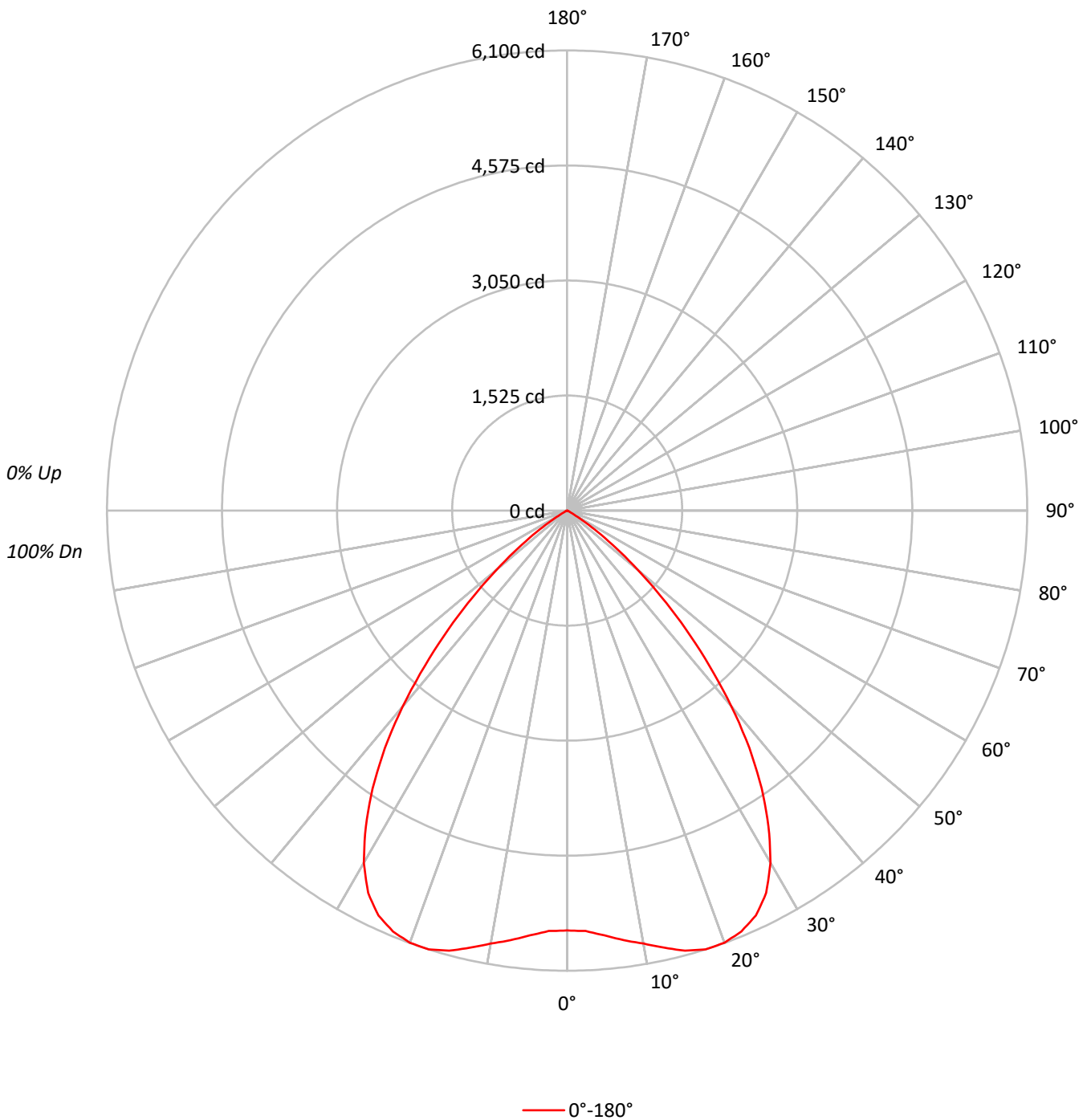
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	94	92
2	106	100	96	92	104	98	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71		79	74	70		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		73	68	64		71	67	63	62
6	82	71	64	59	80	70	64	59	69	63	58		67	62	58		66	61	58	56
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49		58	52	48		57	52	48	47
9	68	56	50	45	66	56	49	45	55	49	45		54	48	45		53	48	44	43
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	171644
5°	174990
10°	182496
15°	192809
20°	200036
25°	201487
30°	191963
35°	169324
40°	136497
45°	96908
50°	58244
55°	26241
60°	6765
65°	1459
70°	721
75°	477
80°	231
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.3	5.5
10°-20°	1707.5	17.1
20°-30°	2700.4	27.1
30°-40°	2774.7	27.8
40°-50°	1721.2	17.3
50°-60°	488.0	4.9
60°-70°	33.0	0.3
70°-80°	4.4	0.0
80°-90°	0.5	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°	4953.2	49.7
0°-40°	7727.9	77.5
0°-60°	9937.1	99.6
0°-90°	9975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9975.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5566	
5°	5653	545
15°	6040	1708
25°	5922	2700
35°	4498	2775
45°	2222	1721
55°	488	488
65°	20	33
75°	4	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5566.3
2.5°	5576.9
5°	5653.2
7.5°	5742.8
10°	5828.3
12.5°	5934.0
15°	6039.6
17.5°	6099.7
20°	6095.8
22.5°	6036.9
25°	5921.9
27.5°	5713.4
30°	5391.2
32.5°	4967.3
35°	4498.0
37.5°	3967.2
40°	3390.9
42.5°	2791.8
45°	2222.2
47.5°	1692.8
50°	1214.1
52.5°	817.0
55°	488.1
57.5°	251.4
60°	109.7
62.5°	44.2
65°	20.0
67.5°	12.0
70°	8.0
72.5°	5.4
75°	4.0
77.5°	2.7
80°	1.3
82.5°	1.3
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)