

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: P250478

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBM0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14005)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90840 8LBM0GPH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8196.1 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

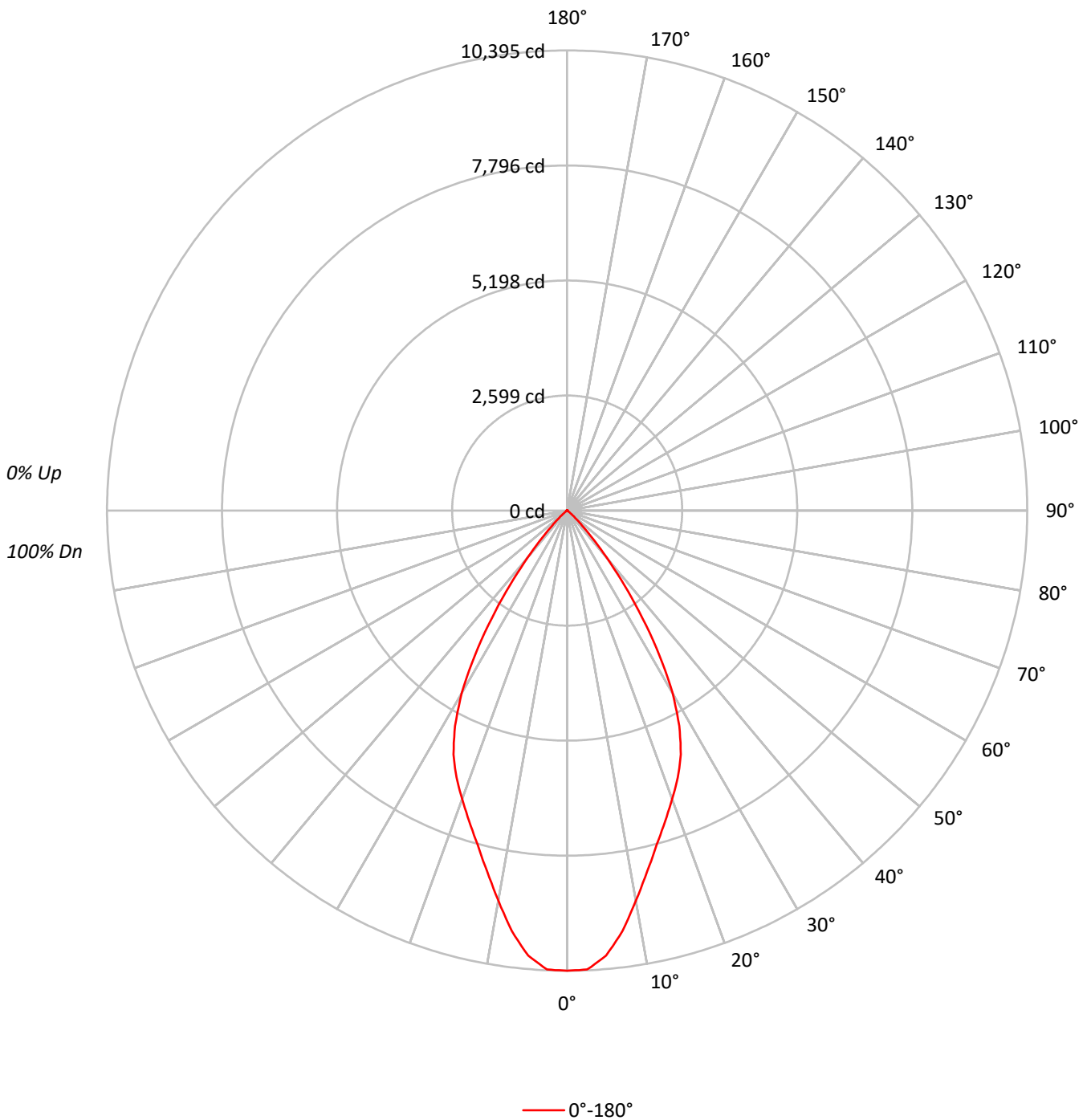
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	106	111	109	107	105	105	103	101		101	100	98		98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79	75	72	71
6	88	79	73	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	82	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	59	58
9	76	66	61	57	75	66	60	57	65	60	56		64	59	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	320534
5°	312429
10°	280077
15°	249449
20°	227558
25°	206751
30°	169534
35°	111574
40°	55659
45°	20714
50°	6294
55°	758
60°	438
65°	0
70°	325
75°	1275
80°	0
85°	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.4	11.3
10°-20°	2200.3	26.8
20°-30°	2741.2	33.4
30°-40°	1849.0	22.6
40°-50°	437.2	5.3
50°-60°	32.0	0.4
60°-70°	5.7	0.1
70°-80°	4.2	0.1
80°-90°	1.0	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°	5866.9	71.6
0°-40°	7716.0	94.1
0°-60°	8185.1	99.9
0°-90°	8196.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8196.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10395	
5°	10093	925
15°	7814	2200
25°	6077	2741
35°	2964	1849
45°	475	437
55°	14	32
65°	0	6
75°	11	4
85°	4	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10394.7
2.5°	10377.0
5°	10093.3
7.5°	9579.3
10°	8944.7
12.5°	8345.5
15°	7813.8
17.5°	7356.4
20°	6934.5
22.5°	6530.4
25°	6076.6
27.5°	5484.6
30°	4761.3
32.5°	3885.6
35°	2963.9
37.5°	2120.1
40°	1382.7
42.5°	826.1
45°	475.0
47.5°	265.9
50°	131.2
52.5°	60.3
55°	14.1
57.5°	3.6
60°	7.1
62.5°	10.7
65°	0.0
67.5°	7.1
70°	3.6
72.5°	3.6
75°	10.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	3.6
87.5°	0.0
90°	0.0

(END OF REPORT)