

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: P250065

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90850 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8872.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

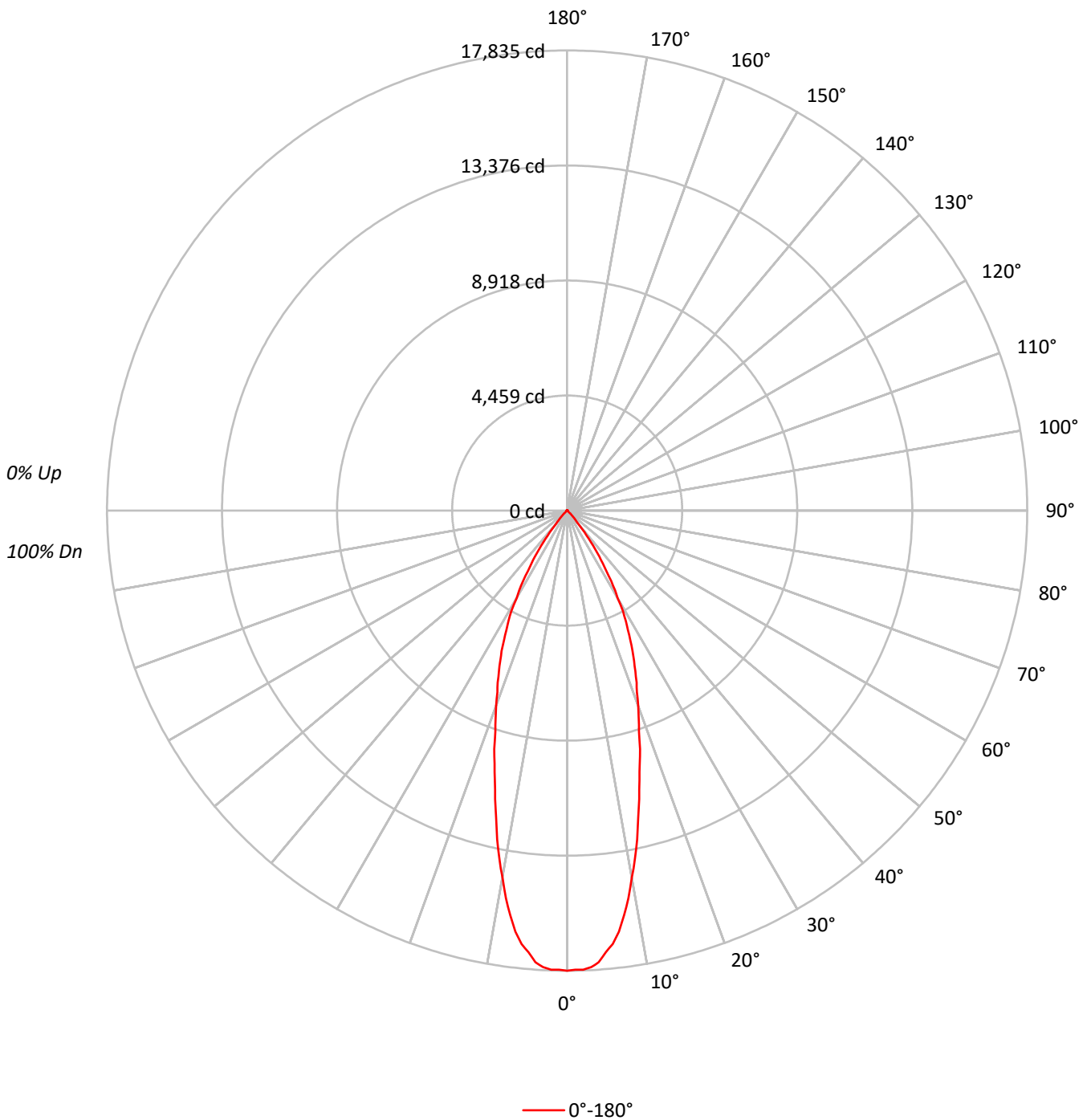
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89		92	90	87		90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83		88	85	82		86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78		84	81	78		83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74		80	76	74		79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70		77	73	70		76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67		73	69	66		72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63		70	66	63		69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60		67	63	60		67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	549963
5°	531844
10°	452299
15°	345214
20°	263829
25°	204447
30°	139443
35°	81925
40°	25050
45°	9856
50°	149
55°	167
60°	191
65°	452
70°	838
75°	739
80°	550
85°	3290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1557.6	17.6
10°-20°	3018.3	34.0
20°-30°	2717.5	30.6
30°-40°	1344.5	15.2
40°-50°	204.5	2.3
50°-60°	8.4	0.1
60°-70°	10.8	0.1
70°-80°	4.1	0.0
80°-90°	6.3	0.1
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°	7293.4	82.2
0°-40°	8637.9	97.4
0°-60°	8850.8	99.8
0°-90°	8872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8872.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17835	
5°	17182	###
15°	10814	3018
25°	6009	2717
35°	2176	1344
45°	226	205
55°	3	8
65°	6	11
75°	6	4
85°	9	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	17834.9
1°	17797.8
2°	17806.9
3°	17717.2
4°	17553.2
5°	17181.7
6°	16896.8
7°	16444.9
8°	15838.1
9°	15206.5
10°	14444.9
11°	13763.9
12°	13033.3
13°	12225.3
14°	11528.7
15°	10813.6
16°	10203.7
17°	9665.1
18°	9002.5
19°	8516.4
20°	8039.8
21°	7544.4
22°	7182.2
23°	6761.2
24°	6374.2
25°	6008.9
26°	5578.6
27°	5191.7
28°	4844.9
29°	4464.1
30°	3916.2
31°	3606.6
32°	3216.5
33°	2789.3
34°	2464.2
35°	2176.3
37.5°	1377.6
40°	622.3
42.5°	424.1
45°	226.0
47.5°	126.9
50°	3.1
52.5°	12.4
55°	3.1
57.5°	18.6



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CANDELA DISTRIBUTION (continued):

	0°
60°	3.1
62.5°	15.5
65°	6.2
67.5°	15.5
70°	9.3
72.5°	3.1
75°	6.2
77.5°	0.0
80°	3.1
82.5°	12.4
85°	9.3
87.5°	0.0
90°	0.0

(END OF REPORT)