

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: P245759

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-16)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50835 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5453.0 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

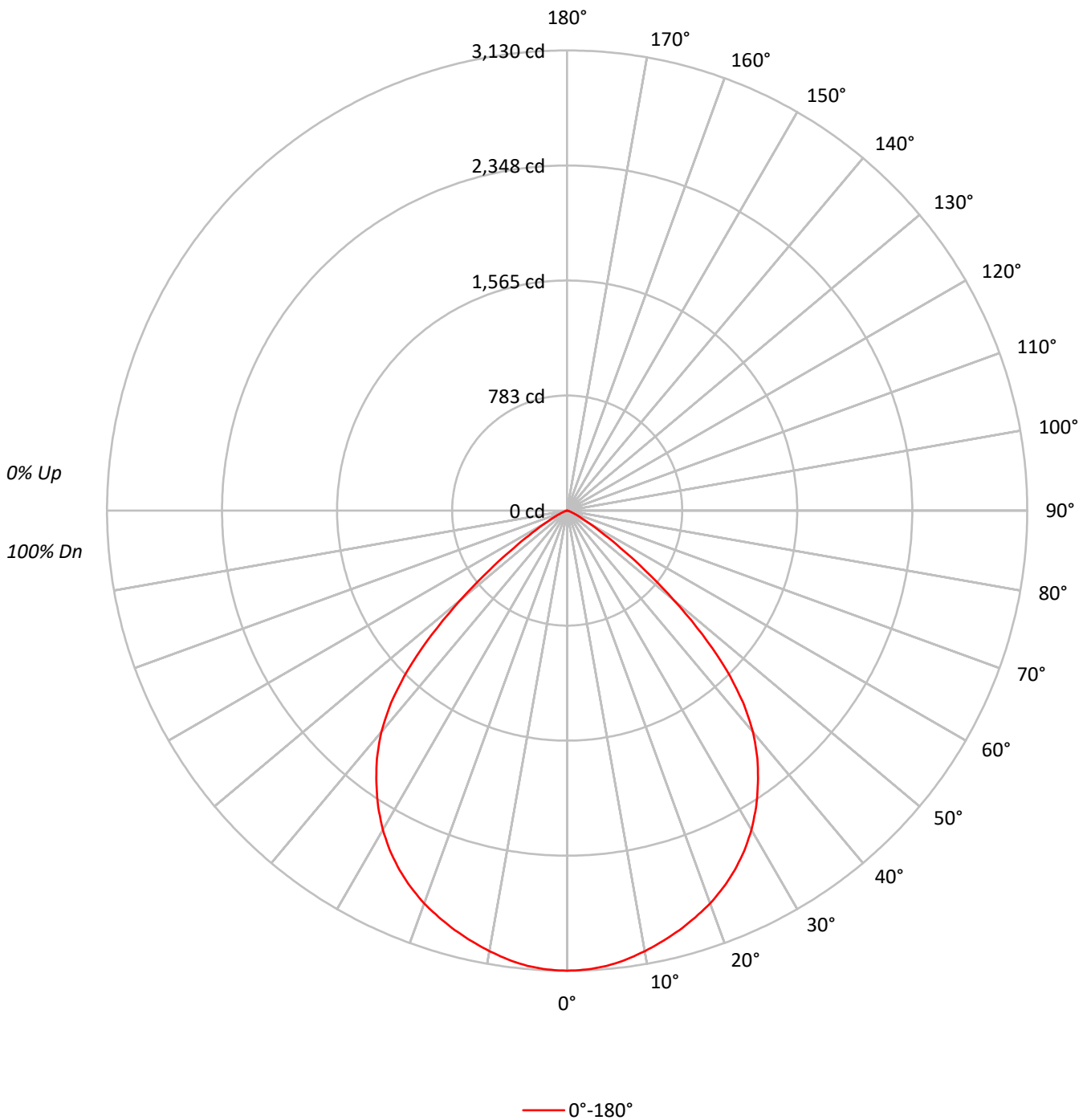
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98		99	97	95		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	69		76	72	68		74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61		70	65	61		68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55		64	59	55		63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50		59	54	50		58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45		55	49	45		54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41		51	45	41		50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38		48	42	38		47	42	38	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	96518
5°	96227
10°	95276
15°	94297
20°	93310
25°	91783
30°	89273
35°	85204
40°	79220
45°	66892
50°	45416
55°	23725
60°	10645
65°	5195
70°	2083
75°	1275
80°	941
85°	637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.6	5.4
10°-20°	833.2	15.3
20°-30°	1240.3	22.7
30°-40°	1409.9	25.9
40°-50°	1152.9	21.1
50°-60°	429.8	7.9
60°-70°	78.5	1.4
70°-80°	12.2	0.2
80°-90°	1.7	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°	2368.1	43.4
0°-40°	3777.9	69.3
0°-60°	5360.6	98.3
0°-90°	5453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5453.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3130	
5°	3109	295
15°	2954	833
25°	2698	1240
35°	2263	1410
45°	1534	1153
55°	441	430
65°	71	79
75°	11	12
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3130.0
2.5°	3124.7
5°	3108.7
7.5°	3080.2
10°	3042.8
12.5°	3000.1
15°	2953.8
17.5°	2900.5
20°	2843.5
22.5°	2775.9
25°	2697.6
27.5°	2608.6
30°	2507.2
32.5°	2391.6
35°	2263.4
37.5°	2126.4
40°	1968.0
42.5°	1772.3
45°	1533.9
47.5°	1247.4
50°	946.7
52.5°	667.3
55°	441.3
57.5°	277.6
60°	172.6
62.5°	110.3
65°	71.2
67.5°	40.9
70°	23.1
72.5°	14.2
75°	10.7
77.5°	7.1
80°	5.3
82.5°	1.8
85°	1.8
87.5°	0.0
90°	0.0

(END OF REPORT)