

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: P245795

Luminaire Tested: **LD8B50D010 ER8B50940 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245795  
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: LD8B50D010 ER8B50940 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4857.0 lumens  
Efficiency: N/A  
Efficacy: 91.6 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

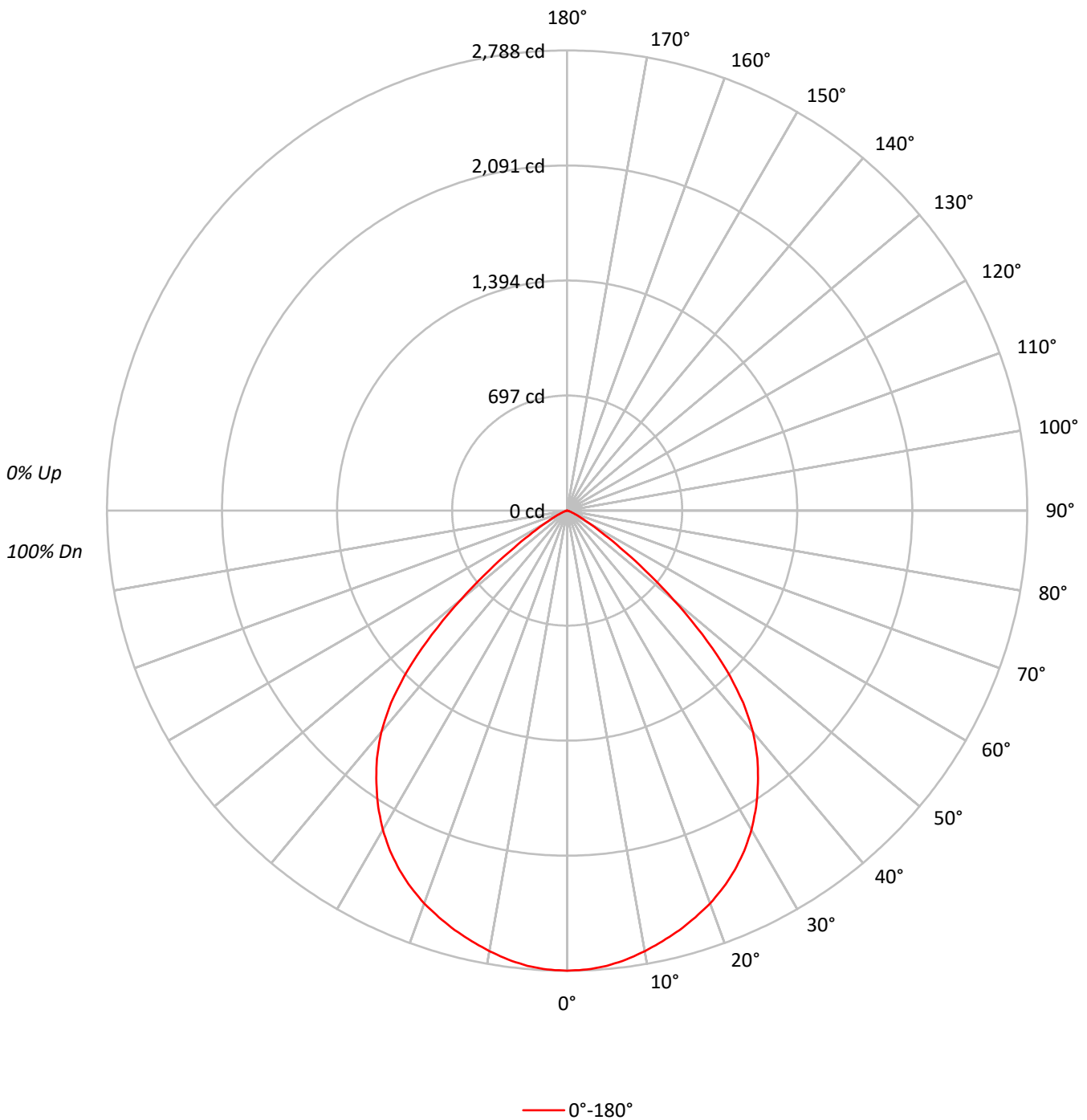
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P245795

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBS0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P245795

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBS0GPH

**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°	85969
5°	85709
10°	84862
15°	83992
20°	83111
25°	81753
30°	79517
35°	75891
40°	70561
45°	59579
50°	40451
55°	21134
60°	9479
65°	4626
70°	1857
75°	1132
80°	852
85°	566



TEST NUMBER: P245795

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBS0GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.4	5.4
10°-20°	742.1	15.3
20°-30°	1104.7	22.7
30°-40°	1255.8	25.9
40°-50°	1026.9	21.1
50°-60°	382.8	7.9
60°-70°	70.0	1.4
70°-80°	10.8	0.2
80°-90°	1.5	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°	2109.2	43.4
0°-40°	3365.0	69.3
0°-60°	4774.7	98.3
0°-90°	4857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4857.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2788	
5°	2769	262
15°	2631	742
25°	2403	1105
35°	2016	1256
45°	1366	1027
55°	393	383
65°	63	70
75°	10	11
85°	2	2
90°	0	



TEST NUMBER: P245795

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBS0GPH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2787.9
2.5°	2783.2
5°	2768.9
7.5°	2743.5
10°	2710.2
12.5°	2672.2
15°	2631.0
17.5°	2583.5
20°	2532.7
22.5°	2472.5
25°	2402.8
27.5°	2323.5
30°	2233.2
32.5°	2130.2
35°	2016.0
37.5°	1894.0
40°	1752.9
42.5°	1578.6
45°	1366.2
47.5°	1111.0
50°	843.2
52.5°	594.4
55°	393.1
57.5°	247.3
60°	153.7
62.5°	98.3
65°	63.4
67.5°	36.5
70°	20.6
72.5°	12.7
75°	9.5
77.5°	6.3
80°	4.8
82.5°	1.6
85°	1.6
87.5°	0.0
90°	0.0

(END OF REPORT)