

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: P247572

Luminaire Tested: **LD8B100D010 ER8B1009730 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B100D010 ER8B1009730 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8001.0 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

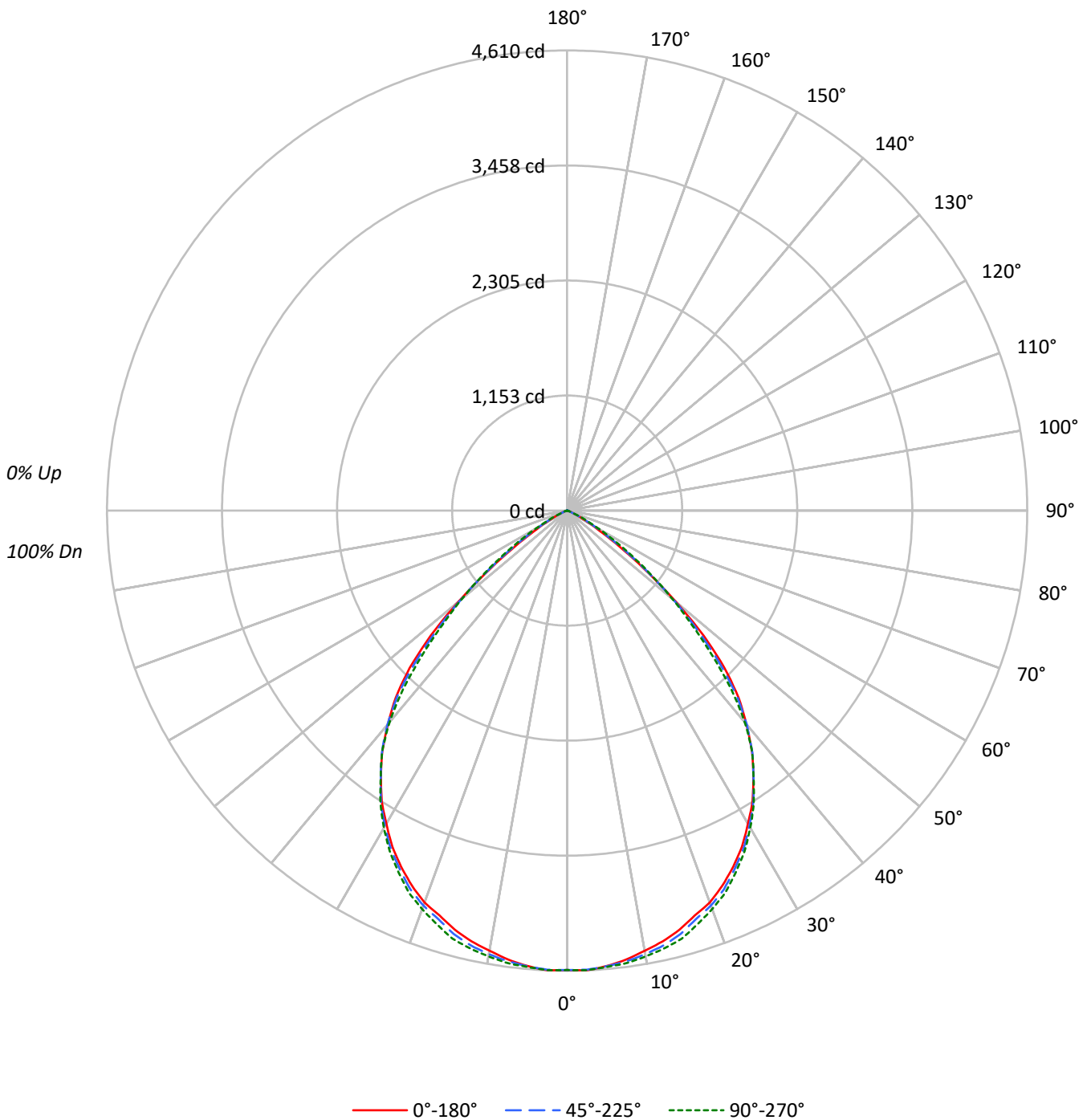
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39	39	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36	36	36

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.4	5.4
10°-20°	1236.5	15.5
20°-30°	1823.5	22.8
30°-40°	2029.6	25.4
40°-50°	1633.4	20.4
50°-60°	694.6	8.7
60°-70°	130.2	1.6
70°-80°	15.8	0.2
80°-90°	2.0	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°	3495.4	43.7
0°-40°	5525.0	69.1
0°-60°	7853.0	98.2
0°-90°	8001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8001.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4603	4603	4603	4603	4603	
5°	4580	4581	4582	4589	4588	434
15°	4347	4371	4392	4426	4440	1225
25°	3936	3951	3965	3988	3998	1809
35°	3252	3253	3255	3256	3256	2025
45°	2232	2213	2153	2088	2057	1678
55°	689	705	747	776	796	656
65°	86	96	108	116	129	112
75°	9	10	16	15	14	14
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4602.8	4602.8	4602.8	4602.8	4602.8
2.5°	4610.5	4613.3	4603.8	4605.7	4608.5
5°	4579.8	4580.8	4581.7	4589.4	4588.4
7.5°	4536.7	4543.5	4554.9	4569.3	4573.1
10°	4478.4	4495.6	4512.8	4530.0	4535.8
12.5°	4420.9	4431.4	4462.1	4479.3	4493.7
15°	4347.2	4371.1	4392.2	4425.7	4440.1
17.5°	4253.4	4270.6	4290.7	4324.2	4344.3
20°	4177.8	4182.5	4211.3	4240.9	4247.6
22.5°	4065.7	4076.3	4106.0	4126.1	4143.3
25°	3936.5	3950.9	3965.2	3988.2	3997.8
27.5°	3794.8	3803.4	3823.5	3839.8	3848.4
30°	3623.5	3642.6	3651.2	3658.9	3670.4
32.5°	3456.9	3462.6	3470.3	3475.1	3480.8
35°	3252.0	3253.0	3254.9	3255.9	3255.9
37.5°	3042.4	3049.1	3047.2	3041.4	3044.3
40°	2794.4	2805.9	2799.2	2782.0	2770.5
42.5°	2544.6	2538.8	2515.8	2464.1	2440.2
45°	2231.5	2213.3	2153.0	2087.9	2057.3
47.5°	1856.2	1816.0	1765.3	1714.6	1694.5
50°	1422.6	1416.8	1393.9	1373.8	1375.7
52.5°	1019.5	1033.9	1038.7	1057.8	1067.4
55°	689.3	704.6	746.7	776.4	795.5
57.5°	419.3	449.0	494.0	542.8	567.7
60°	265.2	282.4	323.6	355.2	366.7
62.5°	165.6	166.6	186.7	211.6	222.1
65°	86.2	95.7	108.2	115.8	129.2
67.5°	53.6	53.6	52.7	64.1	71.8
70°	35.4	30.6	31.6	38.3	41.2
72.5°	12.4	21.1	19.1	19.1	13.4
75°	8.6	10.5	16.3	15.3	14.4
77.5°	11.5	10.5	7.7	6.7	13.4
80°	4.8	3.8	1.0	5.7	5.7
82.5°	4.8	1.9	5.7	7.7	4.8
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)