

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: P247231

Luminaire Tested: **LD8B90D010 ER8B90927 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90927 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8079.8 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

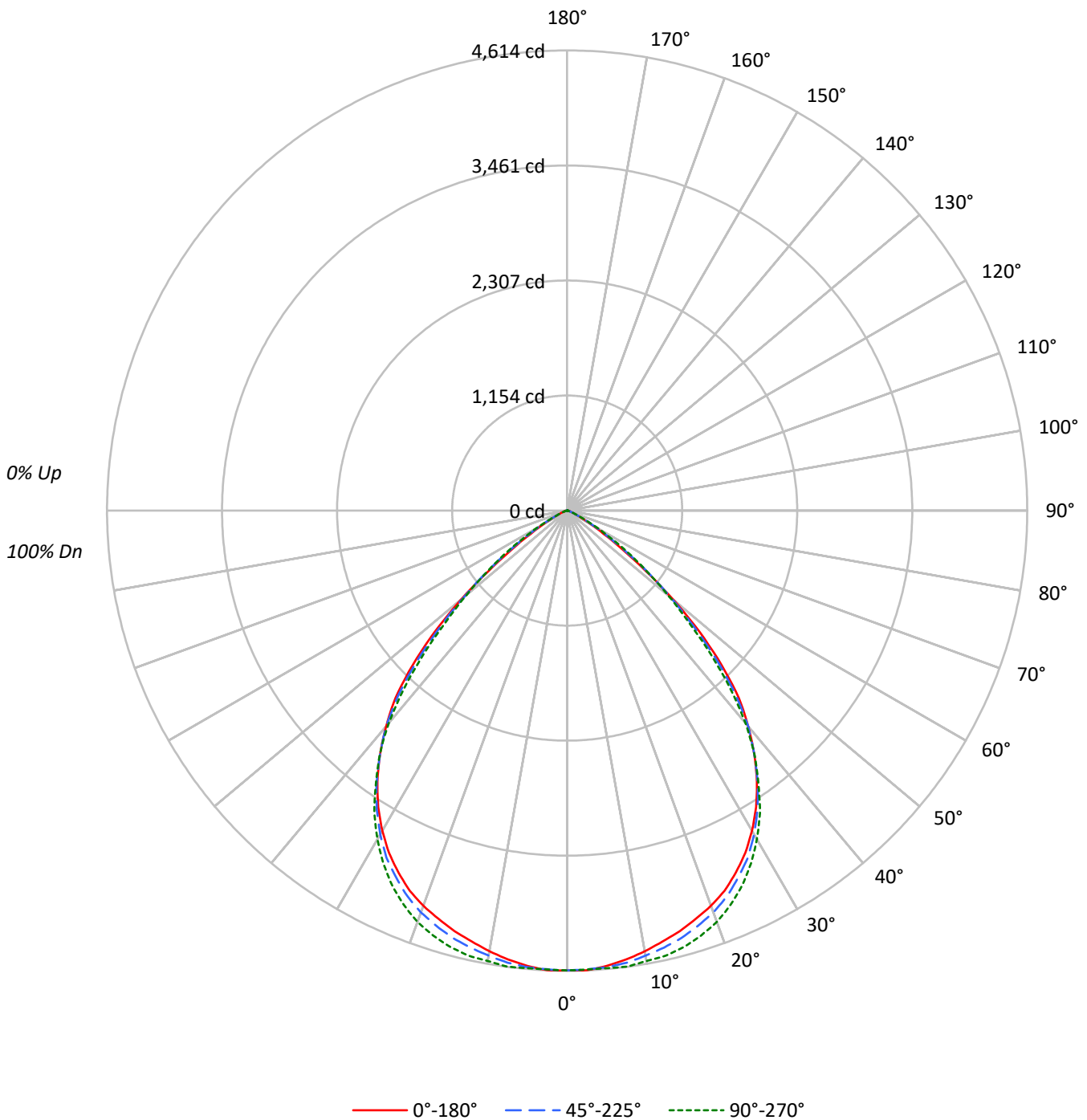
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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CATALOG NUMBER: LD8B90D010 ER8B90927 8LBSOH

**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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48	48	48	48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43	43	43	43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40	40	40	40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36	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°	436.8	5.4
10°-20°	1252.6	15.5
20°-30°	1869.0	23.1
30°-40°	2069.9	25.6
40°-50°	1614.3	20.0
50°-60°	676.6	8.4
60°-70°	135.5	1.7
70°-80°	21.6	0.3
80°-90°	3.4	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°	3558.4	44.0
0°-40°	5628.4	69.7
0°-60°	7919.3	98.0
0°-90°	8079.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8079.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4611	4611	4611	4611	4611	
5°	4582	4585	4595	4607	4605	434
15°	4366	4385	4434	4500	4530	1232
25°	4004	4020	4059	4122	4149	1840
35°	3317	3311	3332	3347	3344	2061
45°	2192	2183	2126	2061	2035	1659
55°	661	686	731	760	774	644
65°	103	103	104	112	109	125
75°	30	27	27	21	20	24
85°	1	2	1	0	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4610.9	4610.9	4610.9	4610.9	4610.9
2.5°	4614.5	4605.6	4603.8	4609.1	4605.6
5°	4581.8	4585.4	4595.1	4607.4	4604.7
7.5°	4539.5	4545.7	4572.1	4603.8	4611.8
10°	4486.5	4499.8	4531.5	4567.7	4584.5
12.5°	4424.7	4442.4	4488.3	4540.4	4571.2
15°	4365.7	4385.0	4434.5	4499.8	4529.8
17.5°	4291.5	4317.2	4365.7	4436.2	4467.2
20°	4217.4	4240.3	4287.2	4356.0	4390.3
22.5°	4125.7	4142.5	4186.6	4244.7	4280.1
25°	4003.9	4019.8	4059.4	4122.1	4149.4
27.5°	3868.1	3886.5	3922.8	3966.0	3990.7
30°	3707.4	3722.5	3748.0	3786.9	3805.4
32.5°	3526.5	3527.4	3553.1	3582.2	3599.0
35°	3316.6	3311.3	3331.6	3347.4	3344.0
37.5°	3084.5	3085.4	3083.6	3085.4	3088.9
40°	2825.1	2812.8	2822.5	2800.5	2784.6
42.5°	2549.9	2537.5	2499.5	2451.0	2424.6
45°	2192.5	2182.8	2126.4	2061.1	2034.6
47.5°	1799.9	1770.0	1724.1	1668.5	1642.8
50°	1384.3	1380.8	1353.5	1340.2	1317.3
52.5°	990.0	990.0	1023.5	1018.2	1017.3
55°	660.8	686.5	730.6	759.7	773.8
57.5°	430.5	454.4	491.4	522.3	536.4
60°	278.8	290.2	316.8	340.5	357.3
62.5°	172.9	182.6	196.8	211.7	217.9
65°	103.3	103.3	104.1	112.0	108.6
67.5°	69.8	72.3	68.9	68.9	77.6
70°	45.0	42.3	41.5	40.6	40.6
72.5°	29.1	24.8	26.4	28.2	24.8
75°	30.0	27.3	27.3	21.2	19.5
77.5°	10.6	11.5	8.0	6.2	5.3
80°	0.9	3.5	3.5	0.9	0.0
82.5°	10.6	9.7	8.0	12.4	8.0
85°	0.9	1.8	0.9	0.0	4.4
87.5°	0.0	0.0	0.0	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)