

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: P247459

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247459  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90935 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8963.0 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

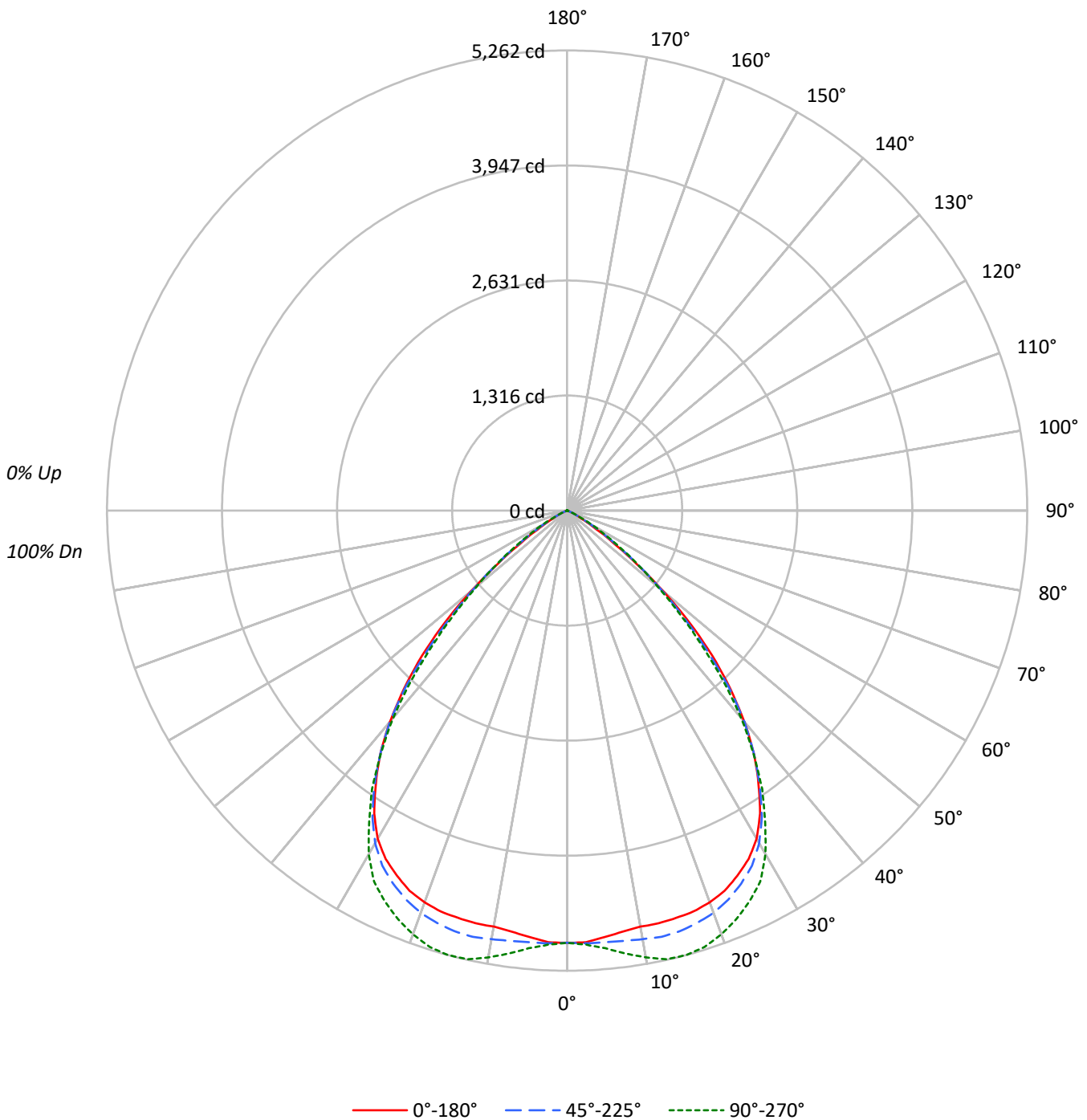
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	45°	90°
0°	152381	152381	152381
5°	151536	153350	155492
10°	151275	155815	162431
15°	153925	158953	167969
20°	156424	160618	169189
25°	156698	160162	167742
30°	154309	156324	161523
35°	143613	144554	146361
40°	126929	126776	124493
45°	102242	98430	94619
50°	68654	66855	64600
55°	34854	37848	40171
60°	14277	17472	20377
65°	5326	5677	6654
70°	343	343	261
75°	691	1144	1489
80°	178	0	0
85°	672	0	672



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.5	5.3
10°-20°	1414.2	15.8
20°-30°	2176.2	24.3
30°-40°	2383.5	26.6
40°-50°	1733.0	19.3
50°-60°	666.7	7.4
60°-70°	104.4	1.2
70°-80°	7.5	0.1
80°-90°	3.0	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°	4064.9	45.4
0°-40°	6448.3	71.9
0°-60°	8848.0	98.7
0°-90°	8963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8963.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4942	4942	4942	4942	4942	
5°	4896	4920	4954	5001	5023	465
15°	4822	4859	4979	5164	5262	1364
25°	4606	4633	4707	4846	4930	2118
35°	3815	3815	3840	3864	3888	2369
45°	2344	2320	2257	2200	2170	1782
55°	648	666	704	727	747	633
65°	73	76	78	88	91	89
75°	6	12	10	12	12	7
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4941.6	4941.6	4941.6	4941.6	4941.6
2.5°	4940.7	4948.4	4953.2	4963.7	4968.5
5°	4895.5	4920.5	4954.1	5001.2	5023.3
7.5°	4856.2	4890.7	4962.8	5064.6	5109.7
10°	4831.2	4868.6	4976.2	5114.5	5187.5
12.5°	4834.1	4875.4	4991.6	5157.7	5255.7
15°	4821.6	4859.0	4979.1	5163.5	5261.5
17.5°	4807.2	4837.9	4944.5	5125.1	5230.7
20°	4766.8	4792.8	4894.6	5057.9	5155.8
22.5°	4706.3	4730.3	4814.9	4966.6	5056.9
25°	4605.5	4633.3	4707.3	4846.5	4930.1
27.5°	4493.1	4509.4	4577.6	4704.4	4784.1
30°	4333.7	4339.4	4390.3	4488.3	4536.3
32.5°	4106.0	4105.1	4143.5	4192.5	4210.7
35°	3815.0	3815.0	3840.0	3864.0	3888.0
37.5°	3512.5	3508.6	3511.5	3517.3	3497.1
40°	3153.2	3145.6	3149.4	3114.8	3092.7
42.5°	2759.4	2766.2	2727.7	2666.3	2643.2
45°	2344.5	2320.5	2257.1	2199.5	2169.7
47.5°	1903.7	1866.2	1805.7	1746.1	1741.3
50°	1431.1	1433.0	1393.6	1360.0	1346.6
52.5°	993.1	1003.7	1023.9	1027.7	1032.5
55°	648.3	665.6	704.0	727.1	747.2
57.5°	396.7	428.4	461.0	504.2	508.1
60°	231.5	246.8	283.3	316.0	330.4
62.5°	130.6	145.0	152.7	171.9	176.7
65°	73.0	75.9	77.8	88.4	91.2
67.5°	44.2	46.1	48.0	47.1	49.0
70°	3.8	8.6	3.8	4.8	2.9
72.5°	16.3	10.6	11.5	8.6	5.8
75°	5.8	12.5	9.6	12.5	12.5
77.5°	3.8	2.9	4.8	5.8	4.8
80°	1.0	0.0	0.0	0.0	0.0
82.5°	8.6	7.7	4.8	7.7	2.9
85°	1.9	0.0	0.0	0.0	1.9
87.5°	5.8	2.9	2.9	6.7	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)