

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: P247653

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120935 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9769.0 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

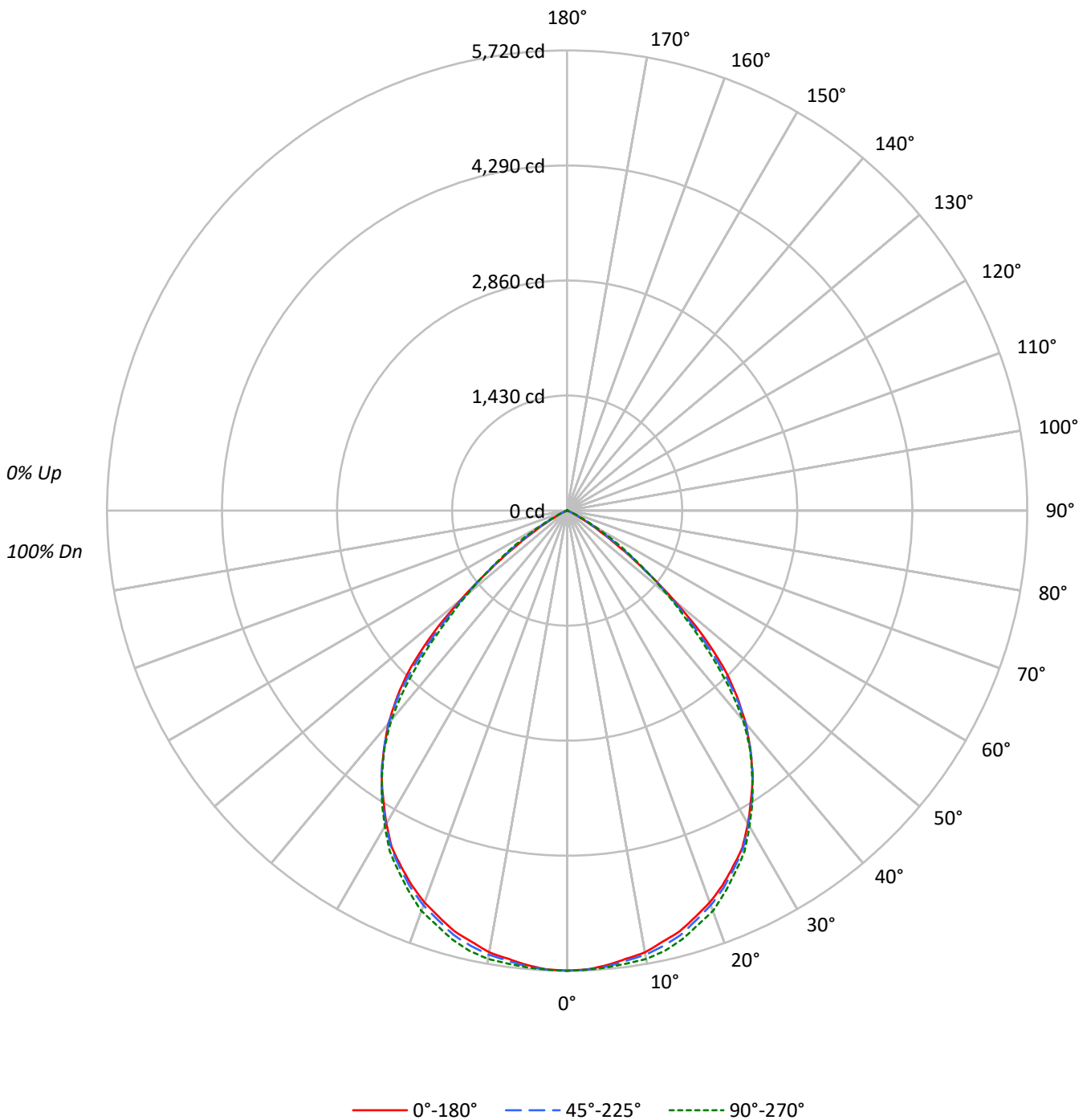
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					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	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

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

	0°	45°	90°
0°	176381	176381	176381
5°	175578	176045	176472
10°	174580	175523	177176
15°	172818	174302	176186
20°	170056	171293	173810
25°	166106	167004	168498
30°	159963	160365	161395
35°	151288	151525	150908
40°	139021	138868	136948
45°	119541	114666	109407
50°	83108	80158	77927
55°	43359	47143	49912
60°	17589	20765	24095
65°	5589	6873	7333
70°	793	451	225
75°	0	0	0
80°	2007	444	675
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	540.2	5.5
10°-20°	1537.2	15.7
20°-30°	2258.2	23.1
30°-40°	2500.1	25.6
40°-50°	1992.5	20.4
50°-60°	816.4	8.4
60°-70°	120.2	1.2
70°-80°	1.7	0.0
80°-90°	2.5	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°	4335.6	44.4
0°-40°	6835.7	70.0
0°-60°	9644.6	98.7
0°-90°	9769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9769.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5720	5720	5720	5720	5720	
5°	5672	5682	5687	5696	5701	538
15°	5413	5417	5460	5511	5519	1524
25°	4882	4877	4908	4937	4952	2245
35°	4019	4014	4025	4020	4009	2498
45°	2741	2716	2629	2531	2509	2057
55°	806	834	877	927	928	776
65°	77	80	94	103	100	102
75°	0	0	0	0	0	3
85°	0	0	0	5	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5719.9	5719.9	5719.9	5719.9	5719.9
2.5°	5709.9	5711.1	5711.1	5704.9	5712.4
5°	5672.2	5682.2	5687.3	5696.1	5701.1
7.5°	5619.4	5616.9	5643.3	5674.7	5678.5
10°	5575.5	5570.4	5605.6	5647.1	5658.4
12.5°	5488.8	5495.0	5540.3	5583.0	5605.6
15°	5413.4	5417.2	5459.9	5511.4	5518.9
17.5°	5296.6	5307.9	5336.8	5390.8	5400.8
20°	5182.2	5187.3	5219.9	5263.9	5296.6
22.5°	5042.8	5051.6	5076.7	5115.6	5132.0
25°	4882.0	4876.9	4908.4	4937.3	4952.3
27.5°	4718.7	4709.9	4733.7	4761.4	4775.2
30°	4492.5	4490.0	4503.8	4521.4	4532.7
32.5°	4255.1	4261.4	4275.2	4280.2	4284.0
35°	4018.9	4013.9	4025.2	4020.2	4008.8
37.5°	3738.7	3742.5	3742.5	3737.5	3732.5
40°	3453.6	3457.3	3449.8	3422.2	3402.1
42.5°	3119.4	3121.9	3083.0	3021.4	2979.9
45°	2741.2	2716.1	2629.4	2531.4	2508.8
47.5°	2265.1	2222.4	2131.9	2057.8	2031.4
50°	1732.4	1701.0	1670.9	1631.9	1624.4
52.5°	1214.8	1231.2	1242.5	1255.0	1251.3
55°	806.5	834.2	876.9	927.1	928.4
57.5°	484.9	516.3	570.4	625.6	652.0
60°	285.2	297.7	336.7	378.1	390.7
62.5°	154.5	158.3	175.9	217.3	211.1
65°	76.6	80.4	94.2	103.0	100.5
67.5°	37.7	41.5	44.0	56.5	46.5
70°	8.8	2.5	5.0	6.3	2.5
72.5°	0.0	0.0	2.5	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.5	0.0	0.0	0.0	5.0
80°	11.3	7.5	2.5	2.5	3.8
82.5°	3.8	1.3	3.8	1.3	0.0
85°	0.0	0.0	0.0	5.0	0.0
87.5°	6.3	1.3	1.3	3.8	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)