

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: P247122

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80935 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8018.0 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

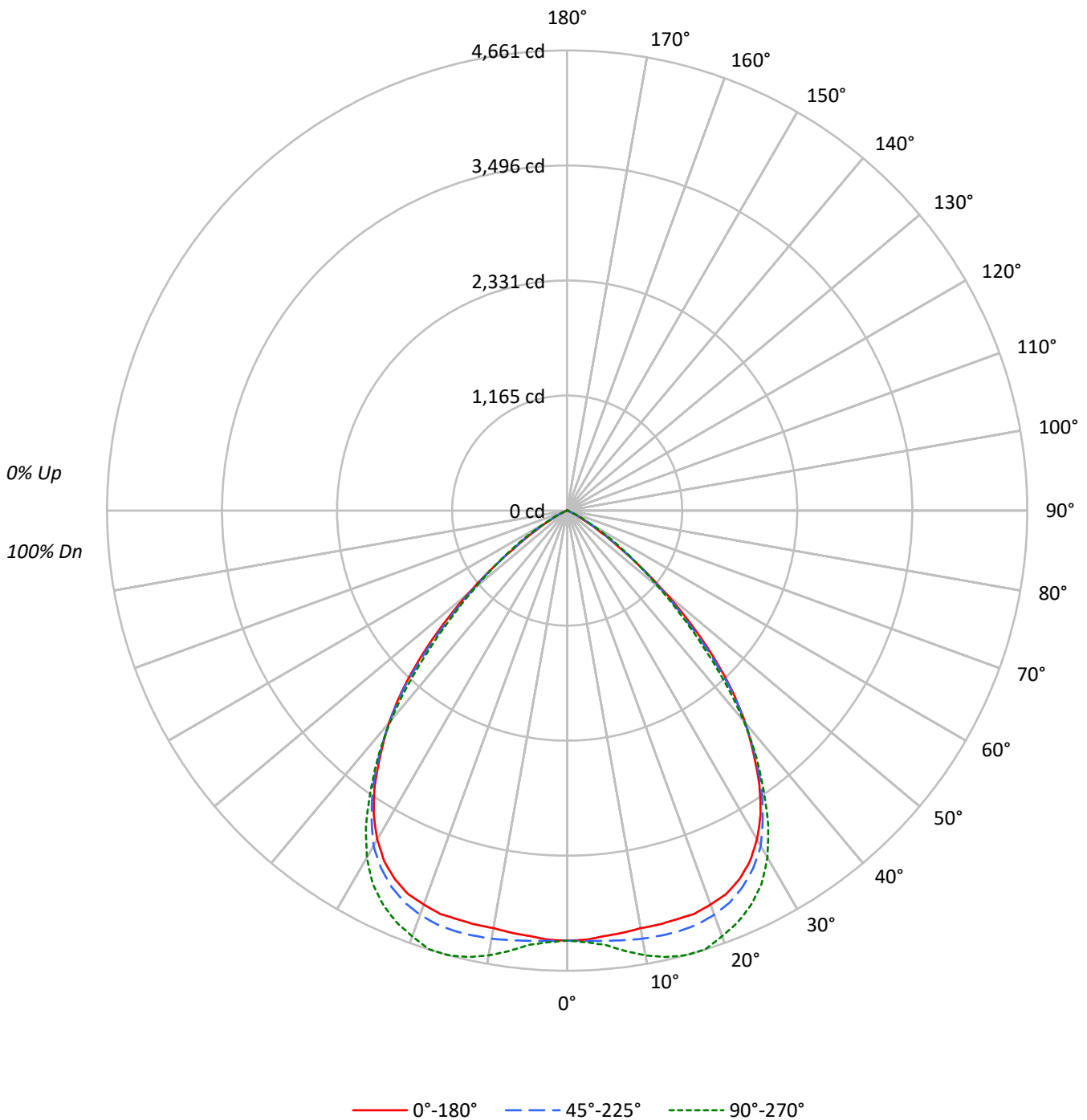
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37					37			

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

	0°	45°	90°
0°	134301	134301	134301
5°	133942	135421	136687
10°	134476	137867	143262
15°	136808	140753	148811
20°	139337	142947	150560
25°	140264	143105	149954
30°	136951	139682	144421
35°	127836	129150	130693
40°	113045	112941	112083
45°	91413	88810	84907
50°	62801	60383	58421
55°	32321	34386	36816
60°	13463	15936	17885
65°	5224	5538	6530
70°	1388	1307	1767
75°	608	1120	1013
80°	906	1065	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.1	5.2
10°-20°	1254.7	15.6
20°-30°	1941.6	24.2
30°-40°	2126.6	26.5
40°-50°	1555.8	19.4
50°-60°	610.4	7.6
60°-70°	98.8	1.2
70°-80°	9.1	0.1
80°-90°	1.8	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°	3615.4	45.1
0°-40°	5742.0	71.6
0°-60°	7908.3	98.6
0°-90°	8018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8018.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4355	4355	4355	4355	4355	
5°	4327	4337	4375	4406	4416	412
15°	4285	4314	4409	4573	4661	1214
25°	4122	4135	4206	4333	4407	1890
35°	3396	3402	3431	3463	3472	2103
45°	2096	2093	2036	1974	1947	1596
55°	601	614	640	663	685	591
65°	72	70	76	84	90	87
75°	5	8	9	7	8	9
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4355.3	4355.3	4355.3	4355.3	4355.3
2.5°	4351.0	4353.6	4362.1	4370.6	4375.8
5°	4327.1	4337.4	4374.9	4406.5	4415.8
7.5°	4312.7	4329.7	4388.6	4467.9	4498.6
10°	4294.7	4319.5	4403.0	4515.6	4575.3
12.5°	4295.6	4319.5	4408.2	4554.8	4631.6
15°	4285.4	4313.5	4409.0	4572.8	4661.4
17.5°	4282.8	4296.4	4393.7	4560.0	4658.0
20°	4246.1	4264.9	4356.1	4503.7	4588.1
22.5°	4206.0	4214.6	4298.2	4443.1	4514.8
25°	4122.5	4135.3	4206.0	4333.1	4407.3
27.5°	4007.3	4009.9	4081.5	4199.2	4264.0
30°	3846.2	3859.0	3922.9	4009.9	4056.0
32.5°	3646.6	3644.9	3686.7	3762.6	3792.4
35°	3395.9	3401.9	3430.8	3463.3	3471.8
37.5°	3101.7	3109.3	3129.0	3140.0	3147.7
40°	2808.3	2808.3	2805.7	2793.8	2784.4
42.5°	2474.0	2462.9	2450.1	2397.2	2374.2
45°	2096.2	2092.8	2036.5	1974.3	1947.0
47.5°	1698.8	1680.0	1621.2	1570.9	1559.8
50°	1309.1	1289.4	1258.7	1234.0	1217.8
52.5°	933.0	918.5	931.3	931.3	929.6
55°	601.2	614.0	639.6	662.6	684.8
57.5°	381.2	398.3	437.5	467.3	475.0
60°	218.3	231.1	258.4	284.8	290.0
62.5°	137.3	138.2	156.1	171.4	180.8
65°	71.6	69.9	75.9	83.6	89.5
67.5°	29.8	29.8	35.8	35.0	44.3
70°	15.4	12.8	14.5	17.1	19.6
72.5°	11.1	8.5	11.9	15.4	6.8
75°	5.1	7.7	9.4	6.8	8.5
77.5°	6.8	6.8	5.1	8.5	1.7
80°	5.1	3.4	6.0	2.6	0.0
82.5°	0.9	1.7	0.9	0.9	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	2.6	4.3	3.4	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)