

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: P247430

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247430  
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: LSR8B80D010 EC8B80827 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8755.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 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

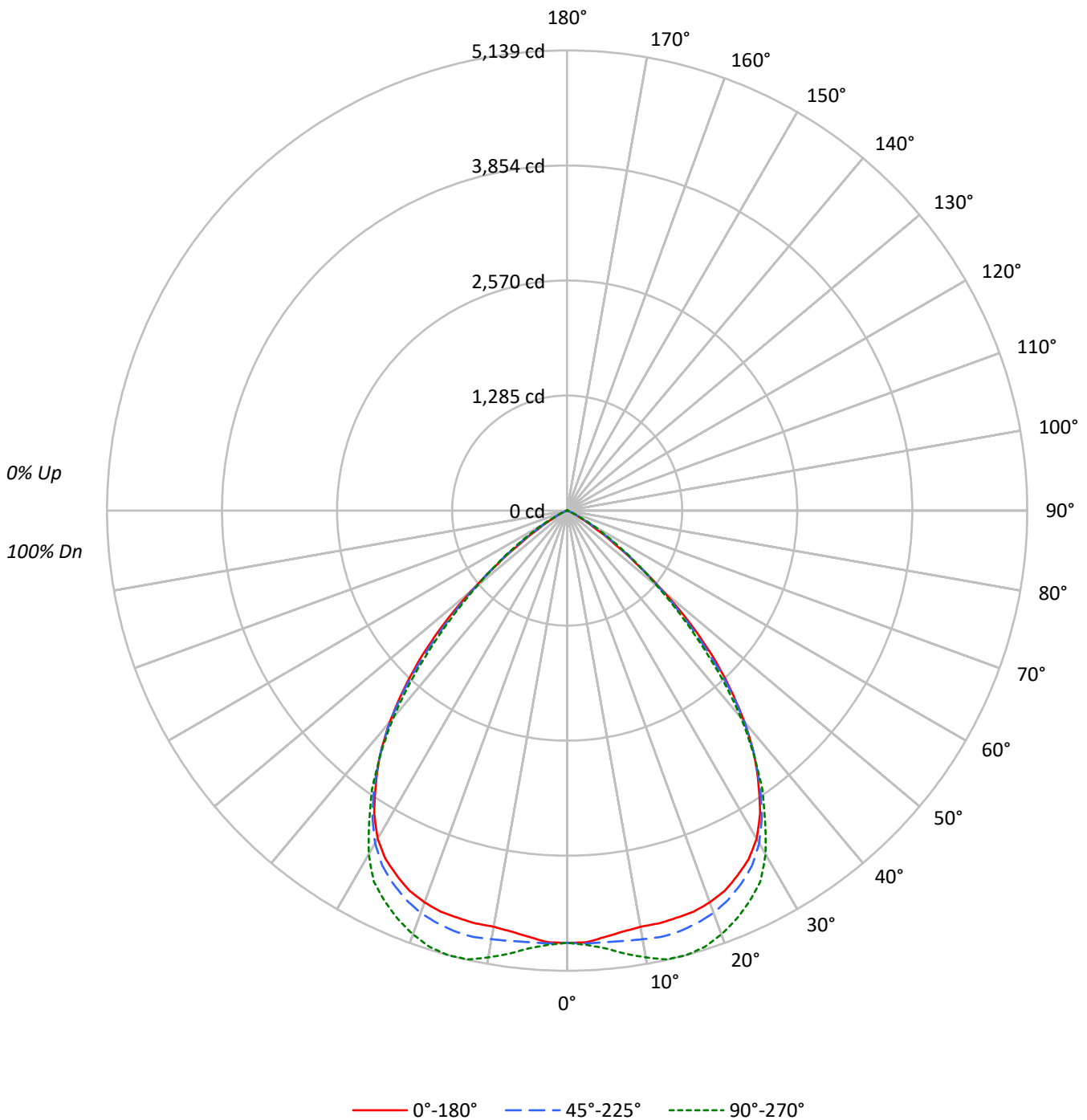
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	148847	148847	148847
5°	148019	149793	151883
10°	147765	152198	158661
15°	150353	155263	164071
20°	152795	156890	165265
25°	153061	156443	163850
30°	150727	152696	157773
35°	140281	141200	142965
40°	123986	123833	121607
45°	99869	96145	92425
50°	67061	65305	63099
55°	34047	36972	39240
60°	13944	17071	19902
65°	5202	5545	6501
70°	343	343	252
75°	667	1120	1454
80°	160	0	0
85°	672	0	672



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	463.5	5.3
10°-20°	1381.4	15.8
20°-30°	2125.7	24.3
30°-40°	2328.2	26.6
40°-50°	1692.8	19.3
50°-60°	651.2	7.4
60°-70°	102.0	1.2
70°-80°	7.3	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°	3970.5	45.4
0°-40°	6298.7	71.9
0°-60°	8642.7	98.7
0°-90°	8755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8755.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4827	4827	4827	4827	4827	
5°	4782	4806	4839	4885	4907	454
15°	4710	4746	4864	5044	5139	1332
25°	4499	4526	4598	4734	4816	2069
35°	3726	3726	3751	3774	3798	2314
45°	2290	2267	2205	2148	2119	1741
55°	633	650	688	710	730	619
65°	71	74	76	86	89	87
75°	6	12	9	12	12	7
85°	2	0	0	0	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4827.0	4827.0	4827.0	4827.0	4827.0
2.5°	4826.0	4833.5	4838.2	4848.5	4853.2
5°	4781.9	4806.3	4839.2	4885.1	4906.7
7.5°	4743.5	4777.2	4847.6	4947.0	4991.1
10°	4719.1	4755.7	4860.7	4995.8	5067.1
12.5°	4721.9	4762.2	4875.7	5038.0	5133.7
15°	4709.7	4746.3	4863.5	5043.7	5139.4
17.5°	4695.6	4725.6	4829.8	5006.2	5109.4
20°	4656.2	4681.5	4781.0	4940.5	5036.2
22.5°	4597.1	4620.6	4703.1	4851.4	4939.5
25°	4498.6	4525.8	4598.0	4734.1	4815.7
27.5°	4388.8	4404.8	4471.4	4595.2	4673.1
30°	4233.1	4238.7	4288.4	4384.1	4431.0
32.5°	4010.7	4009.8	4047.3	4095.2	4113.0
35°	3726.5	3726.5	3750.9	3774.3	3797.8
37.5°	3430.9	3427.2	3430.0	3435.6	3415.9
40°	3080.1	3072.6	3076.3	3042.5	3021.0
42.5°	2695.4	2702.0	2664.4	2604.4	2581.9
45°	2290.1	2266.7	2204.7	2148.4	2119.4
47.5°	1859.5	1822.9	1763.8	1705.6	1700.9
50°	1397.9	1399.8	1361.3	1328.5	1315.3
52.5°	970.1	980.4	1000.1	1003.9	1008.5
55°	633.3	650.2	687.7	710.2	729.9
57.5°	387.5	418.4	450.3	492.5	496.3
60°	226.1	241.1	276.8	308.7	322.7
62.5°	127.6	141.7	149.2	167.9	172.6
65°	71.3	74.1	76.0	86.3	89.1
67.5°	43.2	45.0	46.9	46.0	47.8
70°	3.8	8.4	3.8	4.7	2.8
72.5°	15.9	10.3	11.3	8.4	5.6
75°	5.6	12.2	9.4	12.2	12.2
77.5°	3.8	2.8	4.7	5.6	4.7
80°	0.9	0.0	0.0	0.0	0.0
82.5°	8.4	7.5	4.7	7.5	2.8
85°	1.9	0.0	0.0	0.0	1.9
87.5°	5.6	2.8	2.8	6.6	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)