

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: P247285

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B1209730 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8953.0 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

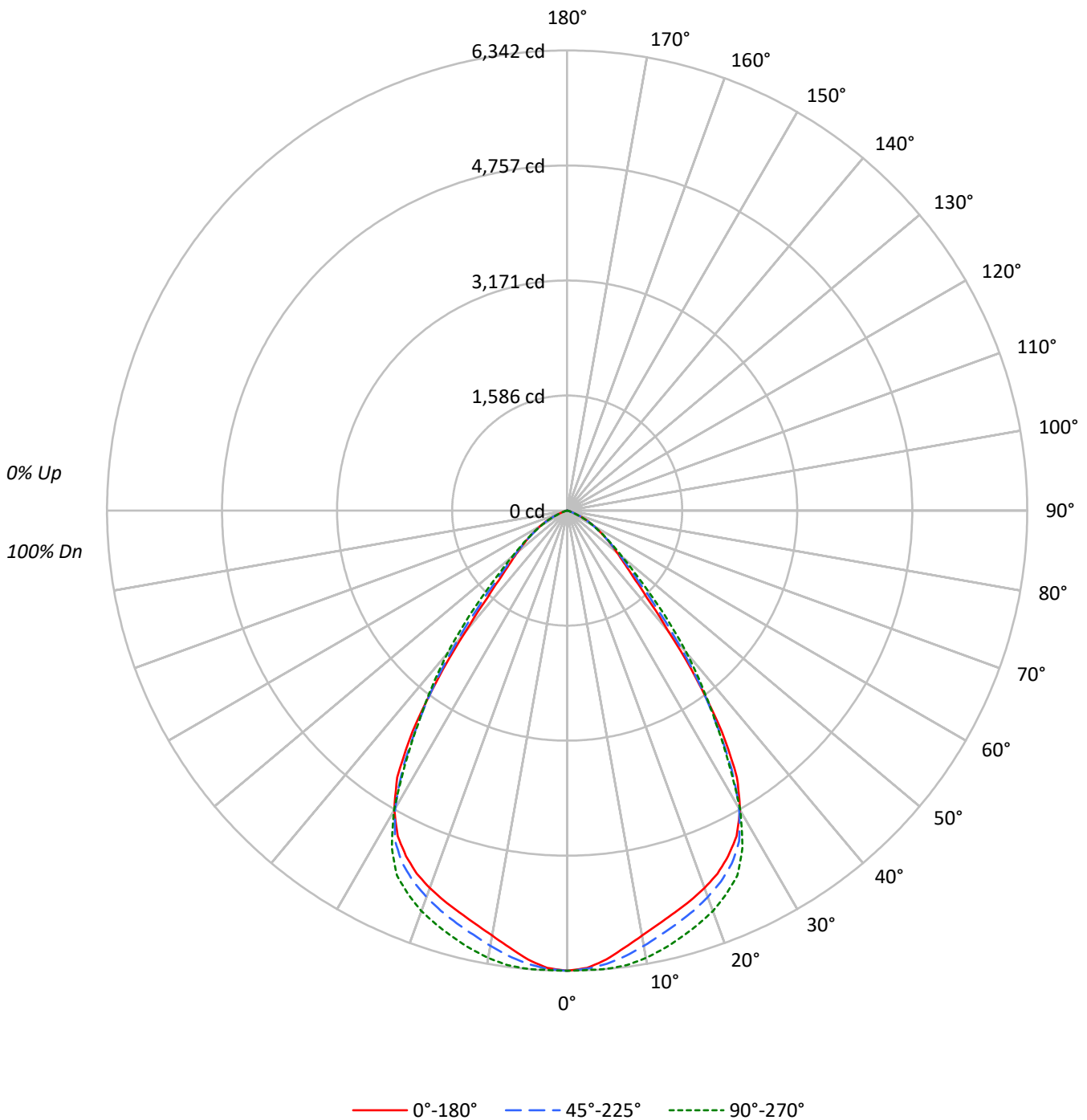
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

**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°	593.1	6.6
10°-20°	1665.5	18.6
20°-30°	2452.8	27.4
30°-40°	2230.9	24.9
40°-50°	1154.9	12.9
50°-60°	578.6	6.5
60°-70°	235.6	2.6
70°-80°	37.6	0.4
80°-90°	4.1	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°	4711.4	52.6
0°-40°	6942.3	77.5
0°-60°	8675.8	96.9
0°-90°	8953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8953.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6342	6342	6342	6342	6342	
5°	6210	6226	6269	6317	6339	584
15°	5734	5774	5886	6022	6087	1621
25°	5254	5289	5370	5492	5550	2405
35°	3714	3690	3582	3552	3574	2239
45°	1273	1318	1415	1525	1593	1048
55°	629	627	627	639	650	572
65°	243	242	233	230	227	245
75°	33	32	29	27	27	41
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6342.1	6342.1	6342.1	6342.1	6342.1
2.5°	6308.5	6311.7	6320.4	6330.2	6337.8
5°	6209.7	6226.0	6269.4	6317.2	6338.9
7.5°	6075.1	6111.0	6190.2	6279.2	6318.2
10°	5947.1	5988.3	6091.4	6210.8	6260.7
12.5°	5834.2	5874.4	5986.2	6119.6	6181.5
15°	5734.4	5773.5	5886.3	6022.0	6087.1
17.5°	5640.0	5675.8	5783.2	5918.9	5985.1
20°	5534.7	5566.2	5668.2	5799.5	5873.3
22.5°	5415.3	5439.2	5534.7	5659.5	5724.6
25°	5253.6	5289.4	5369.7	5492.4	5549.9
27.5°	5056.1	5078.9	5134.2	5209.1	5233.0
30°	4763.1	4762.0	4743.6	4743.6	4774.0
32.5°	4356.1	4304.0	4216.1	4163.0	4158.6
35°	3713.7	3689.8	3582.4	3552.0	3573.7
37.5°	2930.1	2946.4	2973.5	3017.0	3056.0
40°	2175.9	2217.1	2370.2	2506.9	2566.6
42.5°	1623.5	1676.7	1833.0	1982.7	2055.4
45°	1273.0	1317.5	1415.1	1524.8	1593.1
47.5°	1052.7	1075.5	1127.6	1201.4	1236.1
50°	891.0	901.8	925.7	963.7	990.8
52.5°	756.4	752.1	765.1	790.1	799.8
55°	629.4	627.3	627.3	639.2	650.1
57.5°	522.0	518.7	512.2	517.7	520.9
60°	427.6	424.3	418.9	417.8	416.7
62.5°	344.0	338.6	327.7	325.6	325.6
65°	243.1	242.0	233.3	230.1	226.8
67.5°	150.8	146.5	138.9	132.4	131.3
70°	90.1	89.0	82.5	78.1	78.1
72.5°	54.3	52.1	48.8	46.7	45.6
75°	32.6	31.5	29.3	27.1	27.1
77.5°	19.5	18.4	17.4	16.3	16.3
80°	10.9	10.9	9.8	9.8	9.8
82.5°	6.5	6.5	5.4	5.4	5.4
85°	3.3	3.3	3.3	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)