

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: P247525

Luminaire Tested: **LSR8B120D010 EC8B1209730 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B1209730 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8238.0 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

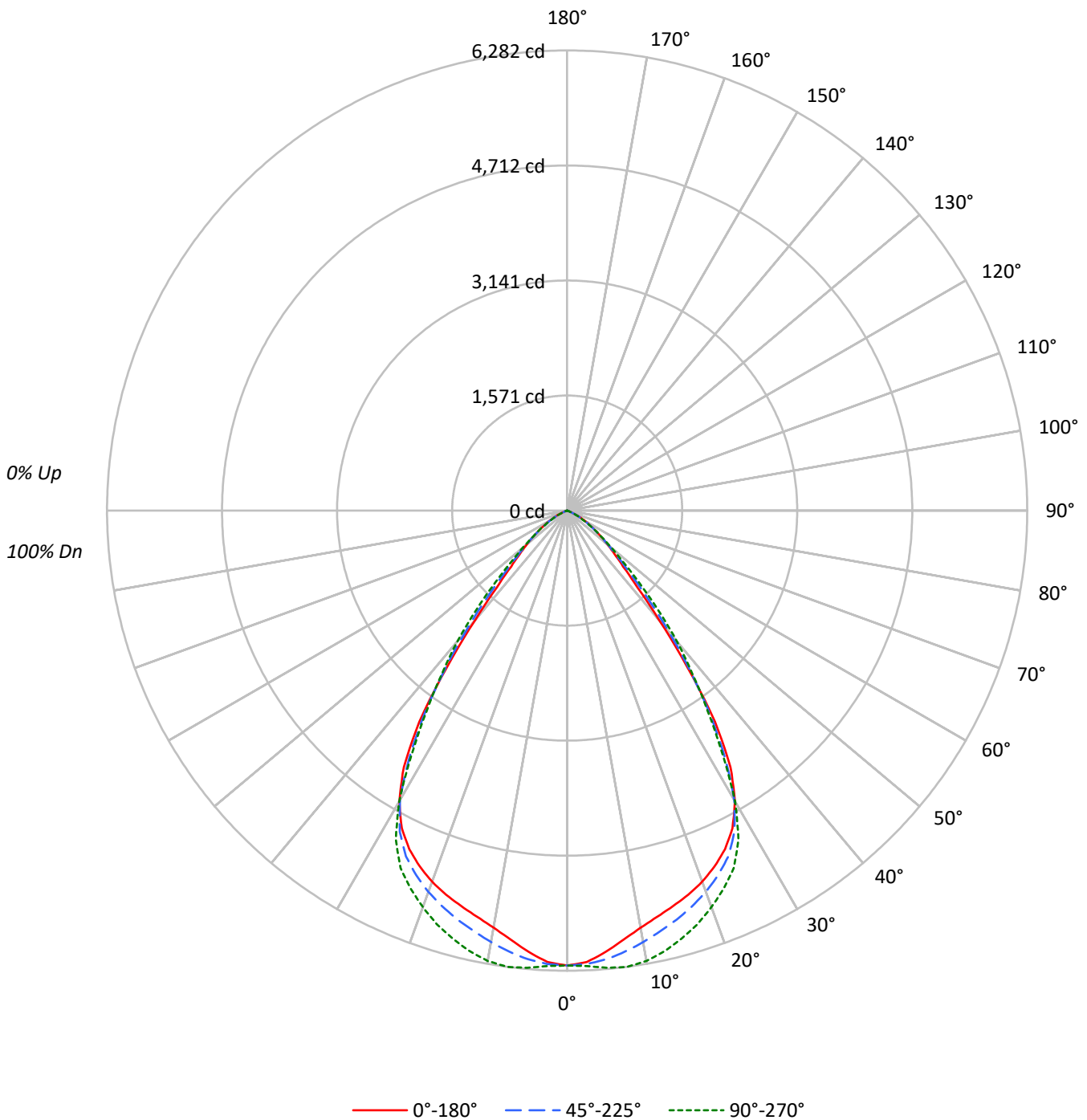
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84	84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53	53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49	49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46	46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42	42	42	42			

**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°	582.3	7.1
10°-20°	1635.2	19.8
20°-30°	2376.7	28.8
30°-40°	2101.8	25.5
40°-50°	999.8	12.1
50°-60°	416.5	5.1
60°-70°	116.4	1.4
70°-80°	8.8	0.1
80°-90°	0.7	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°	4594.2	55.8
0°-40°	6695.9	81.3
0°-60°	8112.2	98.5
0°-90°	8238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8238.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6210	6210	6210	6210	6210	
5°	6046	6077	6149	6230	6266	569
15°	5589	5640	5780	5955	6048	1578
25°	5099	5122	5208	5323	5382	2330
35°	3520	3470	3402	3350	3350	2107
45°	1080	1118	1215	1328	1380	899
55°	462	457	446	446	456	421
65°	116	114	107	103	102	127
75°	8	6	5	5	5	10
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6210.4	6210.4	6210.4	6210.4	6210.4
2.5°	6169.2	6174.6	6195.2	6214.7	6223.4
5°	6046.5	6076.9	6148.6	6229.9	6265.8
7.5°	5906.6	5952.1	6072.6	6215.8	6282.0
10°	5779.6	5837.1	5981.4	6158.3	6241.9
12.5°	5679.8	5732.9	5880.5	6065.0	6159.4
15°	5588.6	5639.6	5779.6	5955.4	6047.6
17.5°	5497.5	5546.3	5666.7	5830.6	5919.6
20°	5391.1	5430.2	5538.7	5683.0	5761.1
22.5°	5258.7	5294.5	5385.7	5513.7	5584.3
25°	5099.2	5122.0	5207.7	5322.7	5382.4
27.5°	4887.6	4893.0	4945.1	5020.0	5064.5
30°	4580.5	4577.2	4563.1	4559.9	4584.8
32.5°	4150.8	4103.0	4020.5	3981.5	3951.1
35°	3520.3	3470.4	3402.0	3349.9	3349.9
37.5°	2691.2	2734.6	2761.7	2794.3	2810.6
40°	1954.4	2018.4	2154.1	2295.1	2333.1
42.5°	1420.5	1480.2	1626.7	1784.0	1829.6
45°	1079.7	1117.7	1215.4	1328.2	1380.3
47.5°	872.5	883.3	932.2	999.4	1024.4
50°	715.1	718.4	733.6	768.3	787.8
52.5°	578.4	576.2	580.6	590.3	599.0
55°	462.3	456.9	446.0	446.0	455.8
57.5°	357.0	349.4	337.5	332.1	328.8
60°	273.5	265.9	252.8	244.2	243.1
62.5°	196.4	189.9	176.9	169.3	167.1
65°	116.1	113.9	107.4	103.1	102.0
67.5°	54.3	52.1	46.7	44.5	43.4
70°	26.0	25.0	22.8	21.7	20.6
72.5°	13.0	13.0	10.9	10.9	10.9
75°	7.6	6.5	5.4	5.4	5.4
77.5°	4.3	3.3	3.3	3.3	3.3
80°	2.2	2.2	2.2	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)