

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: P247573

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247573  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120930 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10167.5 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

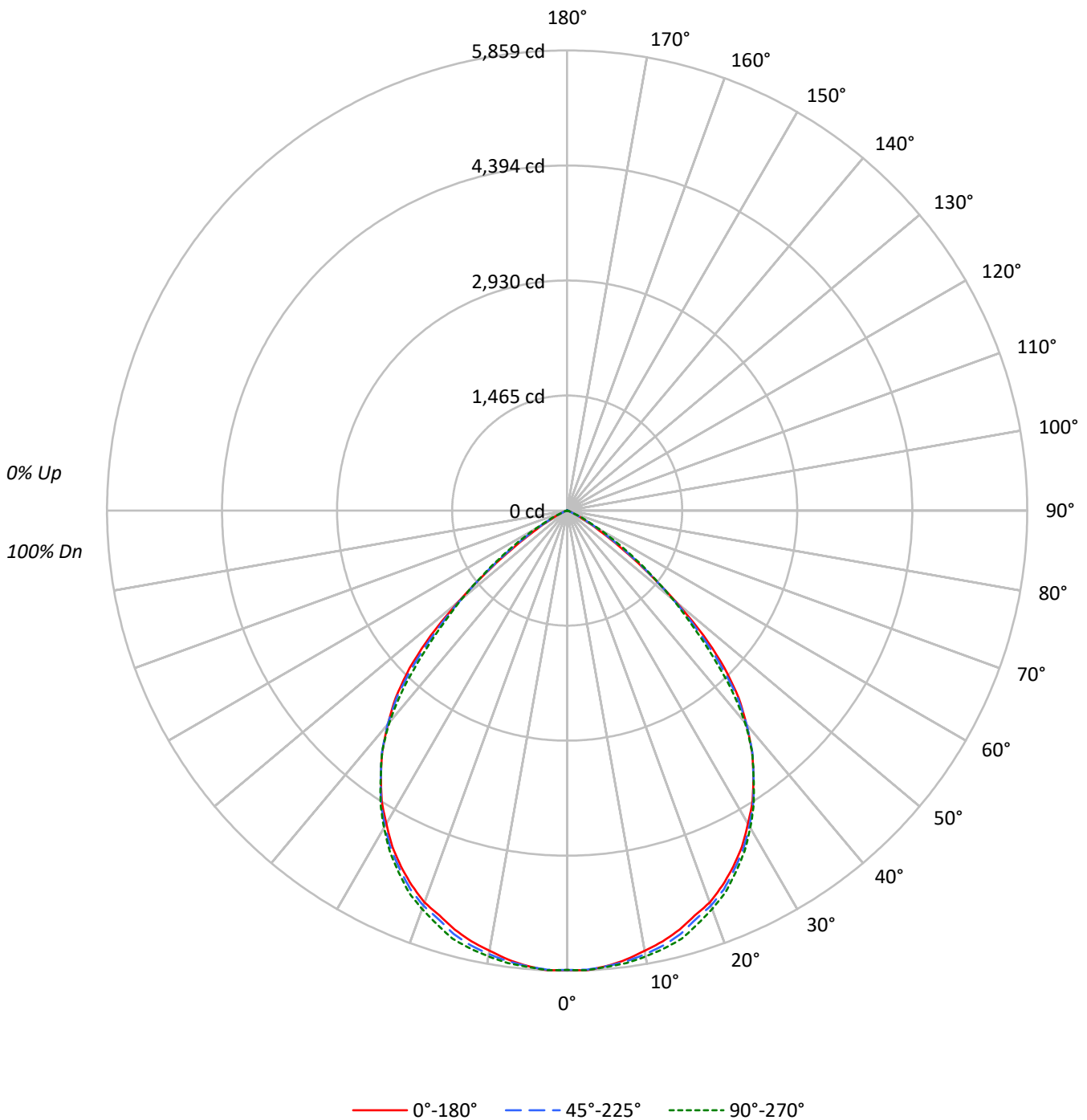
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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						
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91						
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81						
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73						
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65						
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58						
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53						
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48						
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43						
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39						
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36						

**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°	553.3	5.4
10°-20°	1571.3	15.5
20°-30°	2317.3	22.8
30°-40°	2579.2	25.4
40°-50°	2075.7	20.4
50°-60°	882.7	8.7
60°-70°	165.4	1.6
70°-80°	20.1	0.2
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°	4441.8	43.7
0°-40°	7021.1	69.1
0°-60°	9979.4	98.2
0°-90°	10167.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10167.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5849	5849	5849	5849	5849	
5°	5820	5821	5822	5832	5831	551
15°	5524	5555	5582	5624	5642	1557
25°	5002	5021	5039	5068	5080	2299
35°	4133	4134	4136	4138	4138	2574
45°	2836	2813	2736	2653	2614	2132
55°	876	895	949	987	1011	834
65°	110	122	137	147	164	142
75°	11	13	21	20	18	18
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5849.2	5849.2	5849.2	5849.2	5849.2
2.5°	5858.9	5862.5	5850.4	5852.7	5856.4
5°	5819.9	5821.1	5822.4	5832.1	5830.9
7.5°	5765.2	5773.7	5788.3	5806.6	5811.4
10°	5691.0	5712.8	5734.8	5756.7	5764.0
12.5°	5618.0	5631.3	5670.2	5692.2	5710.5
15°	5524.3	5554.8	5581.5	5624.1	5642.3
17.5°	5405.1	5427.0	5452.5	5495.1	5520.7
20°	5308.9	5315.1	5351.5	5389.3	5397.8
22.5°	5166.7	5180.0	5217.7	5243.3	5265.2
25°	5002.5	5020.6	5038.9	5068.2	5080.3
27.5°	4822.3	4833.3	4858.9	4879.6	4890.5
30°	4604.6	4628.9	4639.9	4649.6	4664.3
32.5°	4393.0	4400.3	4410.0	4416.1	4423.4
35°	4132.6	4133.8	4136.3	4137.5	4137.5
37.5°	3866.2	3874.7	3872.3	3865.0	3868.6
40°	3551.1	3565.7	3557.2	3535.3	3520.7
42.5°	3233.5	3226.2	3197.1	3131.4	3100.9
45°	2835.8	2812.6	2736.0	2653.3	2614.4
47.5°	2358.9	2307.8	2243.3	2178.8	2153.3
50°	1807.7	1800.4	1771.3	1745.7	1748.2
52.5°	1295.7	1313.8	1320.0	1344.3	1356.4
55°	875.9	895.3	948.9	986.6	1010.9
57.5°	532.8	570.6	627.8	689.8	721.4
60°	337.0	358.8	411.2	451.3	465.9
62.5°	210.4	211.6	237.2	268.8	282.3
65°	109.5	121.6	137.4	147.2	164.2
67.5°	68.2	68.2	66.9	81.5	91.2
70°	45.1	38.9	40.1	48.7	52.4
72.5°	15.8	26.8	24.3	24.3	17.0
75°	11.0	13.3	20.6	19.5	18.3
77.5°	14.6	13.3	9.8	8.5	17.0
80°	6.1	4.8	1.2	7.3	7.3
82.5°	6.1	2.5	7.3	9.8	6.1
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)