

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: P247521

Luminaire Tested: **LSR8B120D010 EC8B1209727 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247521
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 EC8B1209727 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7786.0 lumens
Efficiency: N/A
Efficacy: 65.8 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

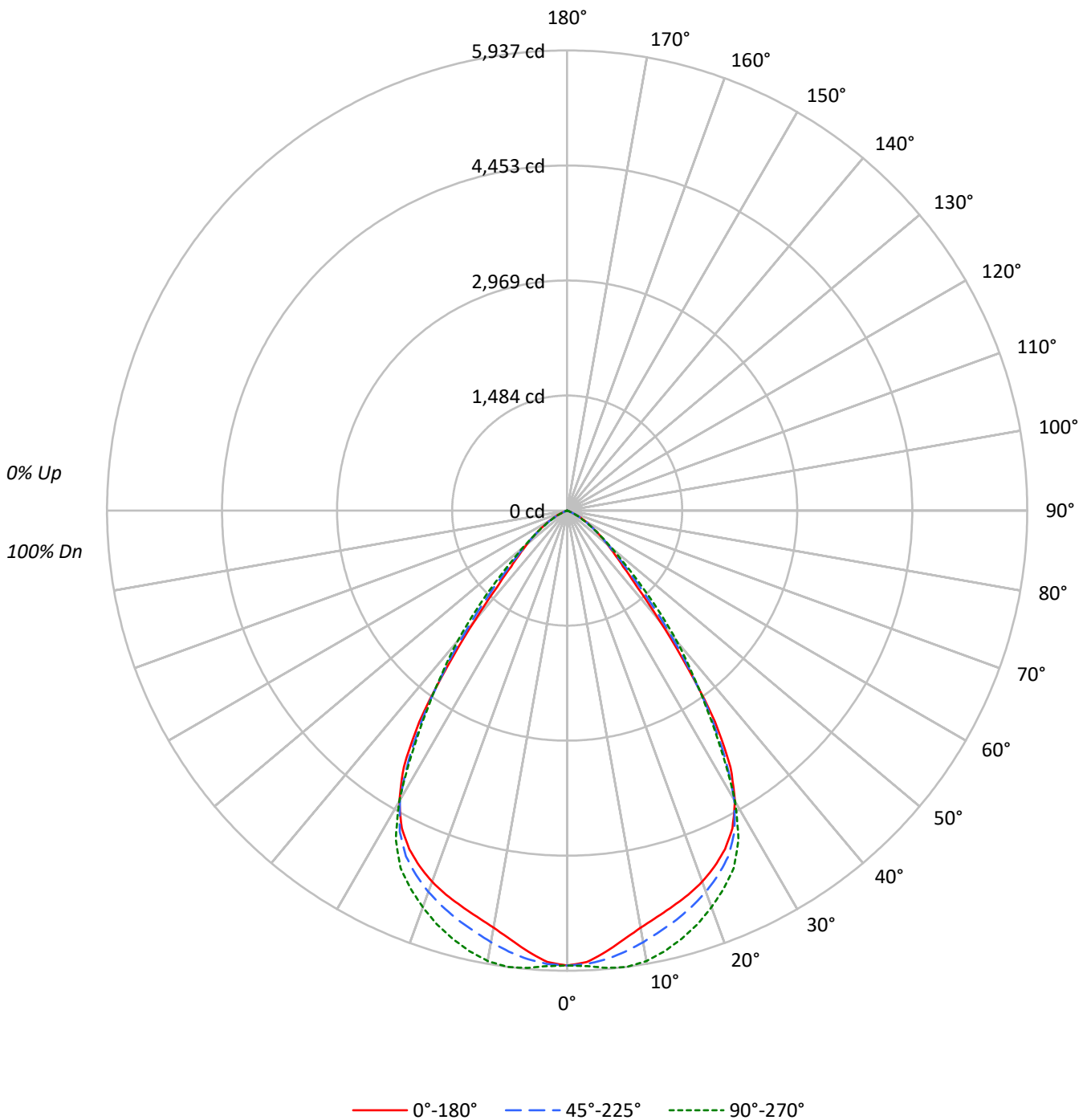
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100				
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	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°	550.3	7.1
10°-20°	1545.5	19.8
20°-30°	2246.3	28.9
30°-40°	1986.4	25.5
40°-50°	945.0	12.1
50°-60°	393.6	5.1
60°-70°	110.0	1.4
70°-80°	8.3	0.1
80°-90°	0.6	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°	4342.1	55.8
0°-40°	6328.5	81.3
0°-60°	7667.1	98.5
0°-90°	7786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5870	5870	5870	5870	5870	
5°	5715	5744	5811	5888	5922	537
15°	5282	5330	5462	5629	5716	1492
25°	4819	4841	4922	5031	5087	2203
35°	3327	3280	3215	3166	3166	1991
45°	1020	1056	1149	1255	1305	850
55°	437	432	422	422	431	397
65°	110	108	102	97	96	120
75°	7	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°	5869.7	5869.7	5869.7	5869.7	5869.7
2.5°	5830.7	5835.8	5855.3	5873.8	5882.0
5°	5714.8	5743.5	5811.2	5888.1	5922.0
7.5°	5582.5	5625.6	5739.4	5874.8	5937.3
10°	5462.5	5516.8	5653.3	5820.4	5899.4
12.5°	5368.1	5418.4	5557.9	5732.2	5821.5
15°	5282.0	5330.2	5462.5	5628.6	5715.8
17.5°	5195.8	5242.0	5355.8	5510.7	5594.8
20°	5095.3	5132.2	5234.8	5371.2	5445.0
22.5°	4970.2	5004.0	5090.2	5211.2	5277.9
25°	4819.4	4841.0	4922.0	5030.7	5087.1
27.5°	4619.4	4624.5	4673.8	4744.5	4786.6
30°	4329.2	4326.1	4312.8	4309.7	4333.3
32.5°	3923.0	3877.9	3799.9	3763.0	3734.3
35°	3327.1	3280.0	3215.3	3166.1	3166.1
37.5°	2543.6	2584.6	2610.2	2641.0	2656.4
40°	1847.2	1907.7	2035.9	2169.2	2205.1
42.5°	1342.5	1399.0	1537.4	1686.1	1729.2
45°	1020.5	1056.4	1148.7	1255.4	1304.6
47.5°	824.6	834.9	881.0	944.6	968.2
50°	675.9	679.0	693.3	726.1	744.6
52.5°	546.7	544.6	548.7	557.9	566.1
55°	436.9	431.8	421.5	421.5	430.8
57.5°	337.4	330.3	319.0	313.8	310.8
60°	258.5	251.3	239.0	230.8	229.7
62.5°	185.6	179.5	167.2	160.0	157.9
65°	109.7	107.7	101.5	97.4	96.4
67.5°	51.3	49.2	44.1	42.1	41.0
70°	24.6	23.6	21.5	20.5	19.5
72.5°	12.3	12.3	10.3	10.3	10.3
75°	7.2	6.2	5.1	5.1	5.1
77.5°	4.1	3.1	3.1	3.1	3.1
80°	2.1	2.1	2.1	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	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)