

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: P247556

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247556
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: LSR8B100D010 EC8B100935 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9262.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

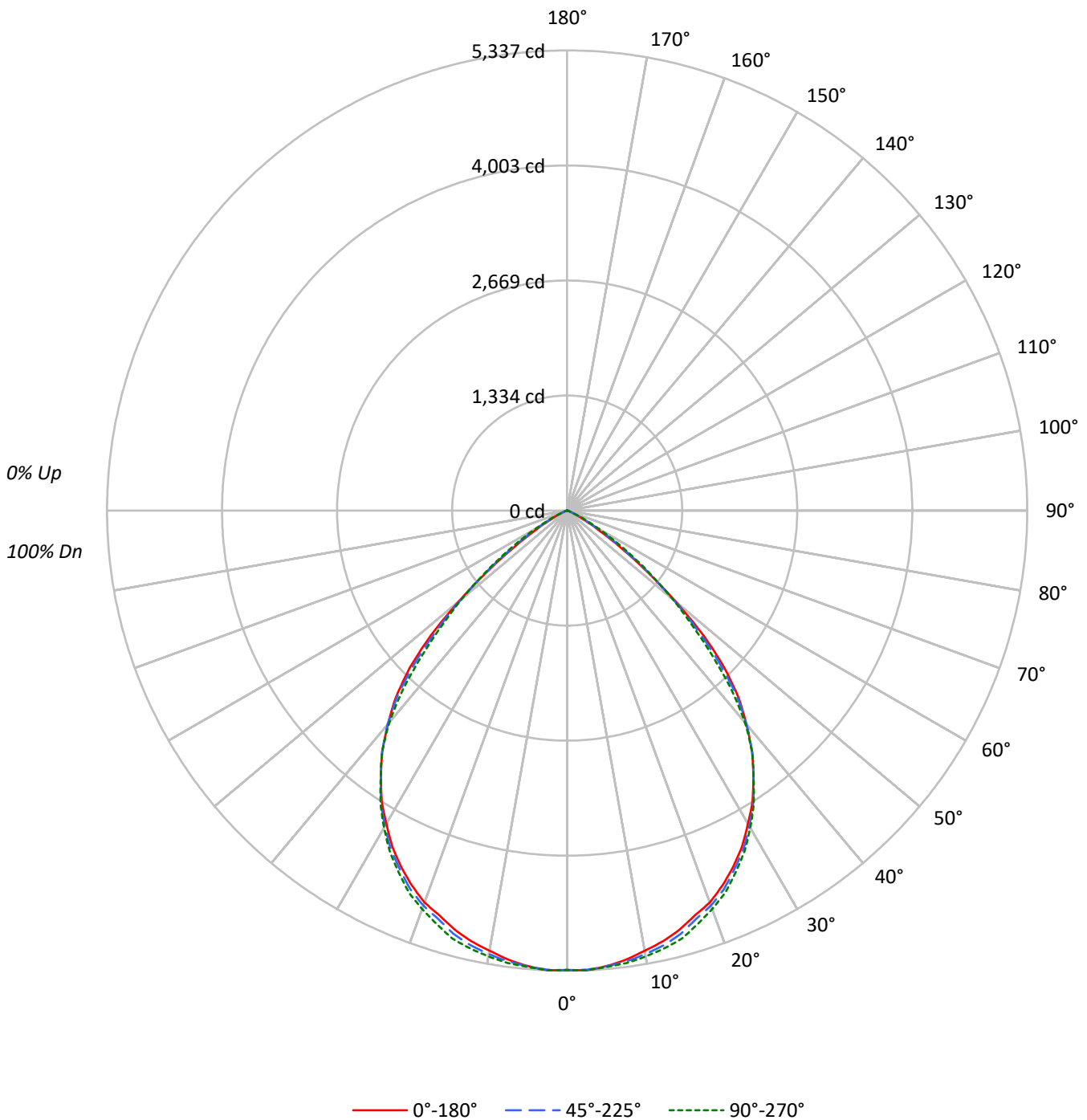
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247556

CATALOG NUMBER: LSR8B100D010 EC8B100935 8LBS0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P247556

CATALOG NUMBER: LSR8B100D010 EC8B100935 8LBS0GPH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	164302	164302	164302
5°	164106	164177	164416
10°	162328	163577	164410
15°	160652	162315	164083
20°	158701	159975	161356
25°	155044	156177	157457
30°	149352	150499	151286
35°	141715	141840	141881
40°	130213	130439	129098
45°	112651	108687	103855
50°	79002	77404	76397
55°	42896	46471	49509
60°	18933	23103	26174
65°	7275	9135	10916
70°	3697	3300	4301
75°	1191	2240	1978
80°	977	195	1172
85°	0	0	0



TEST NUMBER: P247556

CATALOG NUMBER: LSR8B100D010 EC8B100935 8LBS0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.0	5.4
10°-20°	1431.4	15.5
20°-30°	2110.9	22.8
30°-40°	2349.5	25.4
40°-50°	1890.9	20.4
50°-60°	804.1	8.7
60°-70°	150.7	1.6
70°-80°	18.3	0.2
80°-90°	2.3	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°	4046.2	43.7
0°-40°	6395.8	69.1
0°-60°	9090.7	98.2
0°-90°	9262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5328	5328	5328	5328	5328	
5°	5302	5303	5304	5313	5312	502
15°	5032	5060	5084	5123	5140	1418
25°	4557	4574	4590	4617	4628	2094
35°	3765	3766	3768	3769	3769	2344
45°	2583	2562	2492	2417	2382	1942
55°	798	816	864	899	921	760
65°	100	111	125	134	150	129
75°	10	12	19	18	17	16
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



TEST NUMBER: P247556

CATALOG NUMBER: LSR8B100D010 EC8B100935 8LBS0GPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5328.2	5328.2	5328.2	5328.2	5328.2
2.5°	5337.1	5340.4	5329.3	5331.6	5334.9
5°	5301.6	5302.7	5303.9	5312.7	5311.6
7.5°	5251.8	5259.5	5272.8	5289.4	5293.9
10°	5184.2	5204.1	5224.1	5244.0	5250.7
12.5°	5117.7	5129.9	5165.3	5185.3	5201.9
15°	5032.3	5060.0	5084.4	5123.2	5139.8
17.5°	4923.7	4943.7	4967.0	5005.7	5029.0
20°	4836.2	4841.7	4875.0	4909.3	4917.1
22.5°	4706.5	4718.7	4753.1	4776.3	4796.3
25°	4556.9	4573.5	4590.2	4616.8	4627.8
27.5°	4392.9	4402.9	4426.2	4445.0	4455.0
30°	4194.5	4216.7	4226.7	4235.5	4248.8
32.5°	4001.7	4008.4	4017.2	4022.8	4029.4
35°	3764.6	3765.7	3767.9	3769.0	3769.0
37.5°	3521.9	3529.6	3527.4	3520.8	3524.1
40°	3234.8	3248.1	3240.4	3220.4	3207.1
42.5°	2945.6	2938.9	2912.4	2852.5	2824.8
45°	2583.2	2562.2	2492.3	2417.0	2381.5
47.5°	2148.8	2102.3	2043.5	1984.8	1961.5
50°	1646.8	1640.1	1613.5	1590.3	1592.5
52.5°	1180.2	1196.9	1202.4	1224.6	1235.6
55°	797.9	815.6	864.4	898.8	920.9
57.5°	485.4	519.7	571.8	628.4	657.2
60°	307.0	326.9	374.6	411.1	424.4
62.5°	191.7	192.8	216.1	244.9	257.1
65°	99.7	110.8	125.2	134.1	149.6
67.5°	62.1	62.1	61.0	74.2	83.1
70°	41.0	35.5	36.6	44.3	47.7
72.5°	14.4	24.4	22.2	22.2	15.5
75°	10.0	12.2	18.8	17.7	16.6
77.5°	13.3	12.2	8.9	7.8	15.5
80°	5.5	4.4	1.1	6.6	6.6
82.5°	5.5	2.2	6.6	8.9	5.5
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)