

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: P247431

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90827 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9860.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

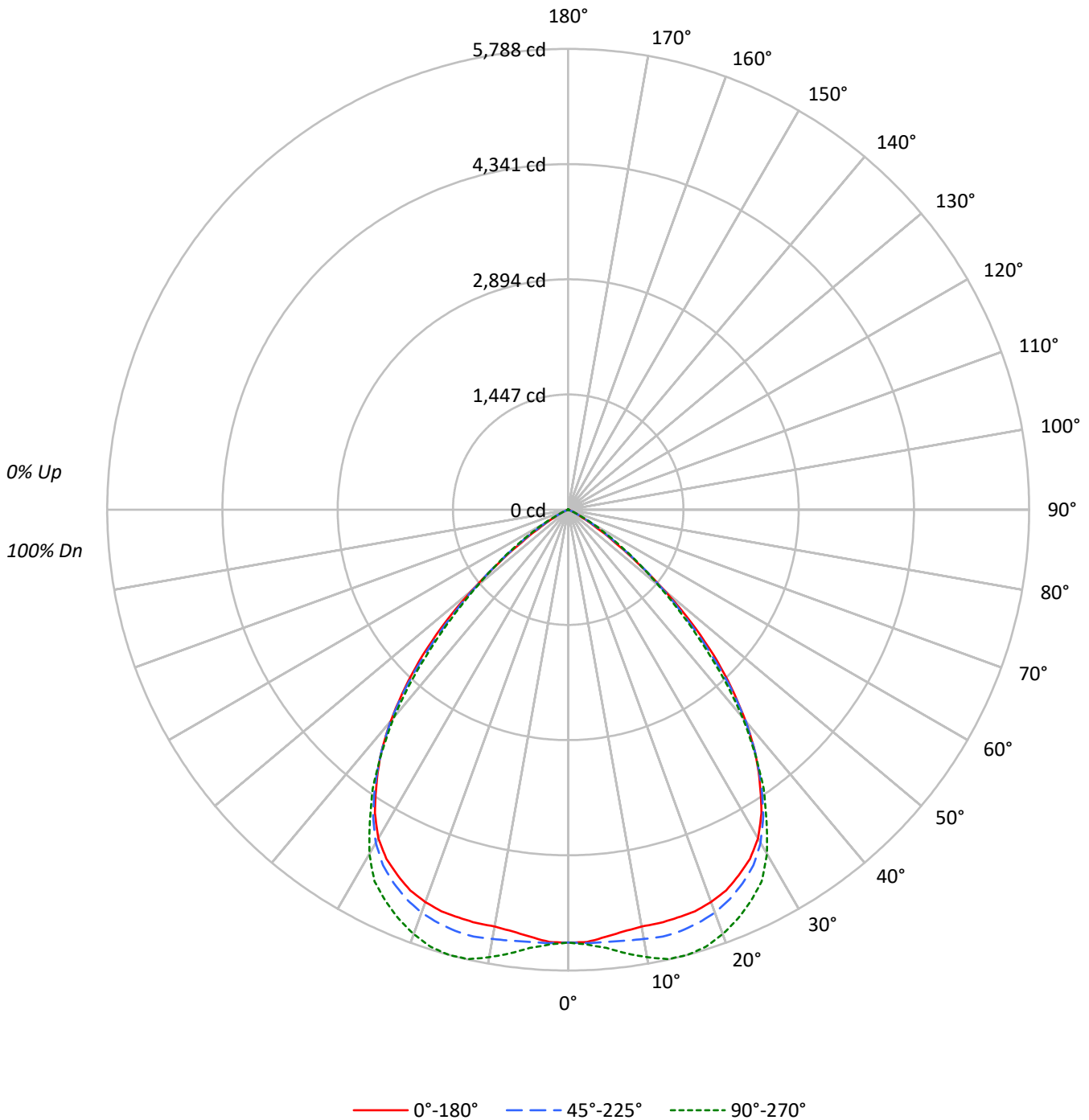
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247431

CATALOG NUMBER: LSR8B90D010 EC8B90827 8LBS0WH

Luminous Intensity Polar Plot





TEST NUMBER: P247431

CATALOG NUMBER: LSR8B90D010 EC8B90827 8LBS0WH

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	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	167632	167632	167632
5°	166703	168697	171052
10°	166414	171408	178688
15°	169329	174861	184777
20°	172080	176691	186122
25°	172380	176190	184530
30°	169751	171970	177688
35°	157985	159020	161008
40°	139633	139464	136952
45°	112477	108281	104086
50°	75524	73547	71062
55°	38343	41638	44192
60°	15702	19223	22418
65°	5859	6246	7326
70°	379	379	289
75°	751	1263	1632
80°	195	0	0
85°	743	0	743



TEST NUMBER: P247431

CATALOG NUMBER: LSR8B90D010 EC8B90827 8LBS0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.0	5.3
10°-20°	1555.7	15.8
20°-30°	2393.9	24.3
30°-40°	2622.0	26.6
40°-50°	1906.5	19.3
50°-60°	733.4	7.4
60°-70°	114.9	1.2
70°-80°	8.2	0.1
80°-90°	3.3	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°	4471.7	45.4
0°-40°	7093.7	71.9
0°-60°	9733.5	98.7
0°-90°	9860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5436	5436	5436	5436	5436	
5°	5386	5413	5450	5502	5526	512
15°	5304	5345	5477	5680	5788	1501
25°	5066	5097	5178	5332	5424	2330
35°	4197	4197	4224	4251	4277	2606
45°	2579	2553	2483	2420	2387	1961
55°	713	732	774	800	822	697
65°	80	84	86	97	100	98
75°	6	14	11	14	14	8
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



TEST NUMBER: P247431

CATALOG NUMBER: LSR8B90D010 EC8B90827 8LBS0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5436.2	5436.2	5436.2	5436.2	5436.2
2.5°	5435.1	5443.6	5448.9	5460.5	5465.8
5°	5385.5	5412.9	5449.9	5501.7	5526.0
7.5°	5342.1	5380.2	5459.4	5571.4	5621.1
10°	5314.7	5355.9	5474.2	5626.4	5706.7
12.5°	5317.8	5363.3	5491.1	5673.9	5781.7
15°	5304.1	5345.3	5477.4	5680.3	5788.0
17.5°	5288.3	5322.1	5439.4	5638.0	5754.2
20°	5243.9	5272.4	5384.4	5564.0	5671.8
22.5°	5177.3	5203.7	5296.7	5463.7	5563.0
25°	5066.4	5097.0	5178.4	5331.6	5423.5
27.5°	4942.8	4960.7	5035.7	5175.2	5262.9
30°	4767.4	4773.7	4829.7	4937.5	4990.3
32.5°	4516.9	4515.9	4558.2	4612.0	4632.1
35°	4196.8	4196.8	4224.3	4250.7	4277.1
37.5°	3864.0	3859.7	3862.9	3869.3	3847.1
40°	3468.8	3460.4	3464.6	3426.5	3402.2
42.5°	3035.6	3043.0	3000.7	2933.1	2907.8
45°	2579.2	2552.7	2483.0	2419.6	2386.8
47.5°	2094.2	2053.0	1986.4	1920.9	1915.6
50°	1574.3	1576.4	1533.1	1496.1	1481.3
52.5°	1092.5	1104.1	1126.3	1130.6	1135.8
55°	713.2	732.2	774.5	799.8	822.0
57.5°	436.4	471.2	507.2	554.7	558.9
60°	254.6	271.5	311.7	347.6	363.5
62.5°	143.7	159.5	168.0	189.1	194.4
65°	80.3	83.5	85.6	97.2	100.4
67.5°	48.6	50.7	52.8	51.8	53.9
70°	4.2	9.5	4.2	5.3	3.2
72.5°	18.0	11.6	12.7	9.5	6.3
75°	6.3	13.7	10.6	13.7	13.7
77.5°	4.2	3.2	5.3	6.3	5.3
80°	1.1	0.0	0.0	0.0	0.0
82.5°	9.5	8.5	5.3	8.5	3.2
85°	2.1	0.0	0.0	0.0	2.1
87.5°	6.3	3.2	3.2	7.4	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)