

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: P247659

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90950 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8076.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

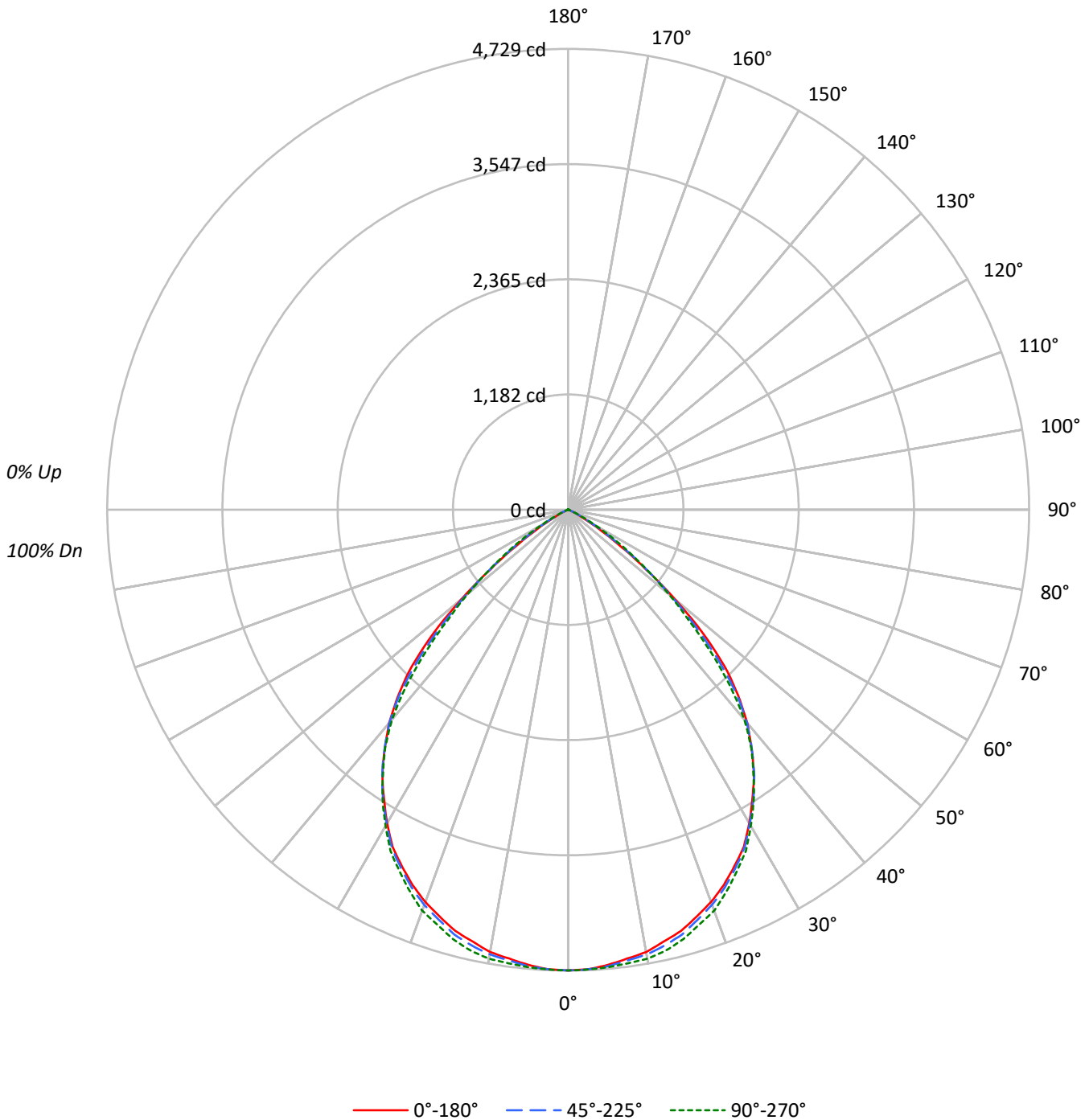
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	145813	145813	145813
5°	145150	145534	145890
10°	144323	145103	146471
15°	142867	144096	145654
20°	140584	141608	143685
25°	137318	138060	139298
30°	132243	132574	133425
35°	125069	125265	124757
40°	114925	114800	113214
45°	98827	94793	90445
50°	68707	66265	64423
55°	35848	38972	41262
60°	14542	17163	19920
65°	4626	5684	6063
70°	658	379	189
75°	0	0	0
80°	1651	373	550
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.6	5.5
10°-20°	1270.8	15.7
20°-30°	1866.9	23.1
30°-40°	2066.9	25.6
40°-50°	1647.2	20.4
50°-60°	674.9	8.4
60°-70°	99.4	1.2
70°-80°	1.4	0.0
80°-90°	2.0	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°	3584.2	44.4
0°-40°	5651.1	70.0
0°-60°	7973.2	98.7
0°-90°	8076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4729	4729	4729	4729	4729	
5°	4689	4698	4702	4709	4713	445
15°	4475	4478	4514	4556	4562	1259
25°	4036	4032	4058	4082	4094	1856
35°	3322	3318	3328	3323	3314	2065
45°	2266	2245	2174	2093	2074	1701
55°	667	690	725	766	768	641
65°	63	66	78	85	83	84
75°	0	0	0	0	0	3
85°	0	0	0	4	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4728.6	4728.6	4728.6	4728.6	4728.6
2.5°	4720.3	4721.4	4721.4	4716.2	4722.4
5°	4689.2	4697.5	4701.6	4708.9	4713.1
7.5°	4645.6	4643.5	4665.3	4691.3	4694.4
10°	4609.2	4605.1	4634.1	4668.4	4677.8
12.5°	4537.5	4542.7	4580.1	4615.4	4634.1
15°	4475.2	4478.3	4513.7	4556.2	4562.5
17.5°	4378.6	4388.0	4411.9	4456.5	4464.8
20°	4284.1	4288.3	4315.3	4351.6	4378.6
22.5°	4168.9	4176.1	4196.9	4229.1	4242.6
25°	4035.9	4031.8	4057.7	4081.6	4094.1
27.5°	3900.9	3893.6	3913.4	3936.2	3947.6
30°	3714.0	3711.9	3723.3	3737.8	3747.2
32.5°	3517.7	3522.9	3534.3	3538.4	3541.5
35°	3322.4	3318.3	3327.6	3323.4	3314.1
37.5°	3090.8	3093.9	3093.9	3089.8	3085.6
40°	2855.0	2858.2	2851.9	2829.1	2812.5
42.5°	2578.8	2580.9	2548.7	2497.8	2463.5
45°	2266.2	2245.4	2173.7	2092.7	2074.0
47.5°	1872.6	1837.2	1762.5	1701.2	1679.4
50°	1432.2	1406.2	1381.3	1349.1	1342.9
52.5°	1004.3	1017.8	1027.2	1037.5	1034.4
55°	666.8	689.6	724.9	766.5	767.5
57.5°	400.9	426.9	471.5	517.2	539.0
60°	235.8	246.1	278.3	312.6	323.0
62.5°	127.7	130.9	145.4	179.7	174.5
65°	63.4	66.5	77.9	85.2	83.1
67.5°	31.2	34.3	36.4	46.7	38.4
70°	7.3	2.1	4.2	5.2	2.1
72.5°	0.0	0.0	2.1	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.1	0.0	0.0	0.0	4.2
80°	9.3	6.2	2.1	2.1	3.1
82.5°	3.1	1.0	3.1	1.0	0.0
85°	0.0	0.0	0.0	4.2	0.0
87.5°	5.2	1.0	1.0	3.1	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)