

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: P247655

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247655
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 EC8B90940 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7801.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

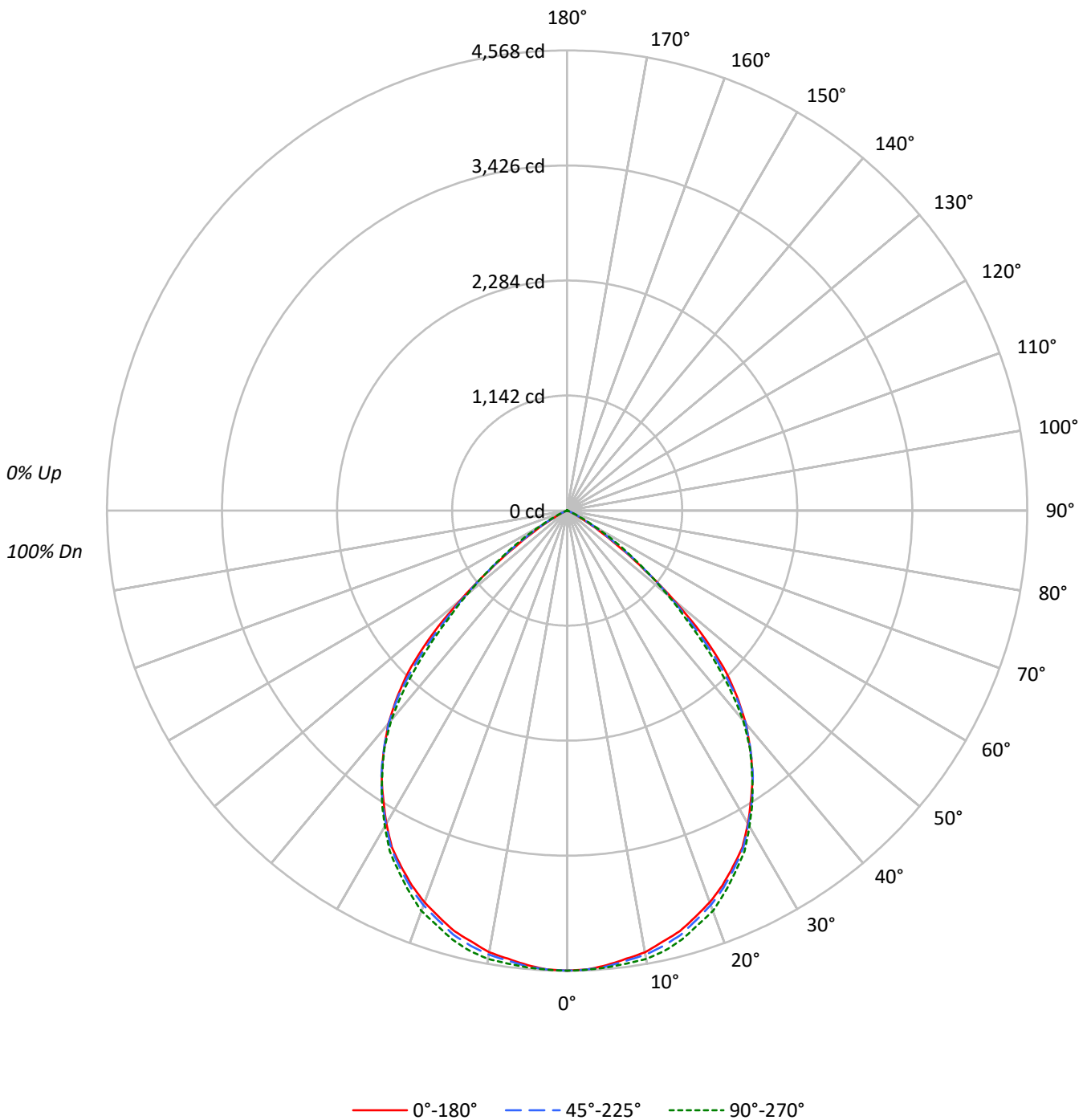
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	140848	140848	140848
5°	140207	140578	140922
10°	139410	140162	141483
15°	138002	139189	140693
20°	135800	136784	138792
25°	132643	133361	134555
30°	127739	128060	128882
35°	120811	121000	120510
40°	111012	110892	109358
45°	95460	91566	87367
50°	66366	64010	62230
55°	34628	37644	39859
60°	14043	16584	19242
65°	4465	5487	5859
70°	631	361	180
75°	0	0	0
80°	1598	355	533
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	5.5
10°-20°	1227.5	15.7
20°-30°	1803.3	23.1
30°-40°	1996.5	25.6
40°-50°	1591.1	20.4
50°-60°	651.9	8.4
60°-70°	96.0	1.2
70°-80°	1.4	0.0
80°-90°	1.9	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°	3462.2	44.4
0°-40°	5458.7	70.0
0°-60°	7701.7	98.7
0°-90°	7801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4568	4568	4568	4568	4568	
5°	4530	4538	4542	4549	4553	430
15°	4323	4326	4360	4401	4407	1217
25°	3898	3894	3920	3943	3955	1793
35°	3209	3205	3214	3210	3201	1995
45°	2189	2169	2100	2022	2003	1643
55°	644	666	700	740	741	620
65°	61	64	75	82	80	81
75°	0	0	0	0	0	3
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4567.6	4567.6	4567.6	4567.6	4567.6
2.5°	4559.6	4560.6	4560.6	4555.6	4561.6
5°	4529.5	4537.5	4541.5	4548.6	4552.6
7.5°	4487.4	4485.4	4506.4	4531.5	4534.5
10°	4452.3	4448.2	4476.3	4509.4	4518.5
12.5°	4383.0	4388.1	4424.2	4458.3	4476.3
15°	4322.8	4325.9	4360.0	4401.1	4407.1
17.5°	4229.5	4238.6	4261.6	4304.8	4312.8
20°	4138.3	4142.3	4168.3	4203.5	4229.5
22.5°	4026.9	4033.9	4054.0	4085.1	4098.1
25°	3898.5	3894.5	3919.6	3942.6	3954.7
27.5°	3768.1	3761.0	3780.1	3802.2	3813.2
30°	3587.5	3585.5	3596.5	3610.6	3619.6
32.5°	3397.9	3402.9	3413.9	3417.9	3421.0
35°	3209.3	3205.3	3214.3	3210.3	3201.3
37.5°	2985.6	2988.6	2988.6	2984.6	2980.5
40°	2757.8	2760.8	2754.8	2732.8	2716.7
42.5°	2491.0	2493.0	2461.9	2412.7	2379.6
45°	2189.0	2168.9	2099.7	2021.5	2003.4
47.5°	1808.8	1774.7	1702.5	1643.3	1622.2
50°	1383.4	1358.3	1334.3	1303.2	1297.2
52.5°	970.1	983.1	992.2	1002.2	999.2
55°	644.1	666.1	700.2	740.4	741.4
57.5°	387.2	412.3	455.5	499.6	520.7
60°	227.7	237.8	268.9	302.0	312.0
62.5°	123.4	126.4	140.4	173.6	168.5
65°	61.2	64.2	75.2	82.3	80.3
67.5°	30.1	33.1	35.1	45.1	37.1
70°	7.0	2.0	4.0	5.0	2.0
72.5°	0.0	0.0	2.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.0	0.0	0.0	0.0	4.0
80°	9.0	6.0	2.0	2.0	3.0
82.5°	3.0	1.0	3.0	1.0	0.0
85°	0.0	0.0	0.0	4.0	0.0
87.5°	5.0	1.0	1.0	3.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)